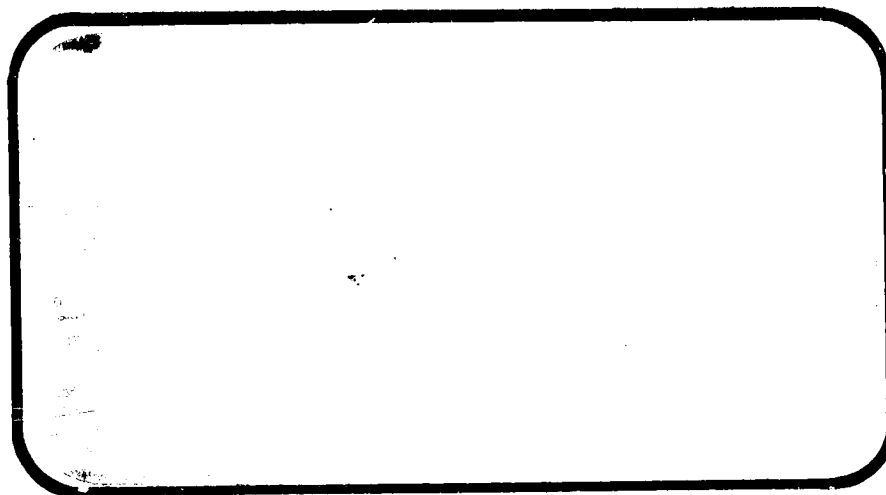




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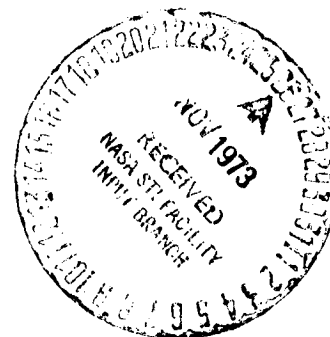


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IN THE GEOMETRY OF THE FORWARD PORTION
OF IRREGULAR PLANFORM WINGS (Chrysler
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G3/01 21933



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

September 1973

DMS-DR-2041
NASA CR-128,781

TRANSONIC AERODYNAMIC CHARACTERISTICS ASSOCIATED
WITH VARIATIONS IN THE GEOMETRY OF THE
FORWARD PORTION OF IRREGULAR PLANFORM WINGS

By

Bernard Spencer, Jr. & David R. Stone, NASA/LaRC

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC 8 Ft. TPT-644
NASA Series No.: LA-7A
Date: April 18-25, 1973 (88 Occ. Hrs)

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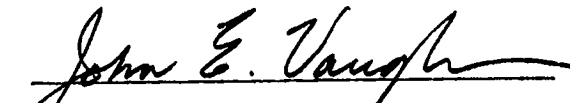
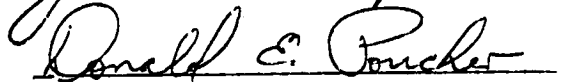
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Data Management Services



Chrysler Corporation Space Division assumes no responsibility for the data presented herein other than its display characteristics.

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TRANSONIC AERODYNAMIC CHARACTERISTICS ASSOCIATED WITH
VARIATIONS IN THE GEOMETRY OF THE FORWARD PORTION
OF IRREGULAR PLANFORM WINGS

by

Bernard Spencer, Jr. and David R. Stone
Langley Research Center

SUMMARY

The experimental aerodynamic characteristics of three basic wing planforms on a LaRC conceptual orbiter fuselage (designated the LO-100) have been obtained in the NASA/LaRC 8-Foot Transonic Pressure Tunnel. The study included variations in the forward portion (fillet) of each basic wing. Fillet sweeps to 78° were investigated while holding the spanwise intersection of the fillet and wing constant. The data were obtained at Mach numbers of 0.35 to 1.2 and at Reynolds number (depending on Mach number) of 1.9×10^6 to 2.11×10^6 per foot. The angle of attack was varied from about -2° to 22° at 0° of sideslip.

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	COEFFICIENTS PLOTTED	CONDITIONS VARYING	
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Effect of Fillet on W-33 Wing (B W2 V FB)	(A)	LAMDAF	26-50
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Effect of Wing Leading Edge Sweep	(A)	LAMDAF WINGNO	76-100
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SCHEDULE OF COEFFICIENTS PLOTTED:

- (A) CA, CN, CL, CIM, L/D, CD versus ALPHA
CN, CL versus CIM, CD versus CL
- (B) CP versus ALPHA
- (C) DCIMAX versus LAMDAF
- (D) XCP/L versus LAMDAF

NOMENCLATURE General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³
<u>Reference & C.G. Definitions</u>		
A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{c} _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XM RP	moment reference point on X axis
	YM RP	moment reference point on Y axis
	ZM RP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (CONCLUDED)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
S_f		wing fillet planform area, in ²
Λ_f	LAMDAF	wing fillet leading edge sweep angle, degrees
$\Delta C_{L_{MAX}}$	DCIMAX	differential lift coefficient at maximum lift
X_{cp}/ℓ_B	XCP/L	longitudinal position of the normal force center of pressure, based on body length, ℓ_B $X_{cp}/\ell_B = X_{MRP}/B - (C_m/C_N)(\bar{c}/\ell_B)$
δ_{rf}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{rf} = (\delta_{r_L} + \delta_{r_R})/2$, positive deflection; degrees
δ_{BF}	BDFLAP	flap, surface deflection angle, positive deflection trailing edge down; degrees
δ_e	ELEVTR	elevator, surface deflection angle, positive deflection trailing edge down; degrees.

INTRODUCTION

The NASA Langley Research Center has recently initiated both an experimental and analytical program to study the aerodynamic characteristics of irregular planform wings having application to space shuttle orbiter design. The benefits to be derived from the use of an irregular planform wing (also referred to as a cranked leading-edge wing (ref. 1) or a double delta wing (ref. 2)) for shuttle application are primarily directed to: (1) the subsonic landing configuration in that linearization of the lift-curve slope to high angles of attack beyond that specified for landing greatly reduces landing speed or minimizes wing area for specified weight and landing velocity; and (2) the desired hypersonic trim angle and stability (dictated by cross-range or heating constraints) can be achieved by slight alteration in the forward portion of the irregular planform wing without greatly altering the desired subsonic characteristics. This forward portion is herein referred to as a fillet, according to the connotations given in reference 3. Because subsonic and hypersonic conditions are the two prime areas of concern in the present application of wing-fillet combinations, this study has been designated the Subsonic/Hypersonic Irregular Planforms Study (SHIPS).

The presently initiated experimental program addresses itself to the determination of the aerodynamic characteristics of a systematic series of wing-fillet combinations which will include subsonic, transonic, low to high supersonic, and hypersonic Mach numbers; since

it is the purpose of the overall study not only to provide experimental aerodynamic information at the desired design points but to indicate any off-design penalties which may negate the selection of a near optimum wing-fillet combination from purely subsonic/hypersonic considerations. For example, excessive transonic pitch-up or adverse effects on directional stability in Mach number areas where inherent vehicle aerodynamics are expected to suffice (i.e. no reaction jet controls required) would certainly warrant a reconsideration of the selected combination.

The second portion of the study involves the development of simplified analytical tools or boundaries which may be employed by the engineer both during pre-design iterations for a specific mission or during development of a vehicle, in that these empirical and simplified analytical tools may be used to perturbate small vehicular changes with confidence and without resorting to wind tunnel verification until a near-optimum configuration is conceived. It is the intent of the present study to provide information boundaries (based on experimental results) regarding the attainment of linearized subsonic lift (ref. 3) with the avoidance of pitch instabilities at high lift (ref. 4) as well as determine the effects of wing-fillet combinations on lateral-directional stability. The hypersonic aerodynamics regarding trim and stability have been presented in the initial experimental portion of the overall SHIPS investigation in reference 5.

It is the purpose of the present paper to present the transonic aerodynamic characteristics at Mach numbers of 0.35, 0.80, 0.90, 0.98 and 1.20 on a series of wing-fillet combinations, each basic wing having been separately proposed as a candidate shuttle orbiter design. The basic wings studied are: the LO-100, a 53.2° cropped delta wing (refs. 6, 7 and 8); an optimal design from an analytical program (ODIN) having a 46.8° sweep, designated W-33 (ref. 9); and the MSC-049, a 35° trapezoidal wing (ref. 10). Variations in the forward portion of the wing (fillet) have been studied with each basic wing. Fillet sweep angles to 78° were incorporated while holding the spanwise intersection of the fillet and wing constant. The data were obtained at a Reynolds number of 1.90×10^6 to 2.11×10^6 per foot depending on Mach number over an angle-of-attack range of -2° to 22° at a sideslip angle of 0° .

CONFIGURATIONS INVESTIGATED

The fuselage for the present investigation was a 0.01875 scale version of the LO-100 Orbiter Concept (ref. 6). The fuselage had a maximum cross-sectional area somewhat in excess of the minimum required to house the 15 foot diameter payload bay. This was done to allow for some body base boattailing to reduce subsonic base drag and improve aerodynamic performance. The fuselage forebody incorporated an unswept nose (positive camber) to produce near zero or positive pitching moment at zero angle of attack at hypersonic speeds. A body base flap was also included to shield the main engines during entry and also as a hypersonic control device. The overall body length, excluding the base flap, was 1350 inches.

The LO-100 wing (fig. 2(a)) had a 53.2° leading-edge sweep, unswept trailing edge, taper ratio of 0.15, aspect ratio of 2.212, NACA 0006 airfoil section at the theoretical root with 1° of incidence, and NACA 0012 airfoil section at the tip with -4° incidence. The W-33 wing (fig. 2(b)) had a 46.8° leading-edge sweep, -11.2° trailing edge sweep, taper ratio of 0.135, aspect ratio of 2.415, NACA 0008 airfoil section at the theoretical root, NACA 0012 airfoil section at the tip, and a 1.5° incidence. The MSC 049 wing (fig. 2(c)) had a 35° leading-edge sweep, -19.6° trailing edge sweep, taper ratio of 0.2, aspect ratio of 2.525, NACA 0008 airfoil section, and a 1.5° incidence. A more detailed description of the model components is listed in Table III.

The longitudinal location of each wing on the fuselage was selected to produce a wing-fillet intersection at 0.62 of the body reference length with a spanwise intersection at 0.176 of the body reference length. Fillet sweeps to 78° (Table IV) were investigated on each wing while holding the spanwise intersection of the fillet and wing constant.

TEST FACILITY DESCRIPTION

The NASA-Langley 8-Foot Transonic Pressure Tunnel is a single return closed circuit tunnel with Mach number continuously variable from 0.2 to 1.3. The test medium is air with stagnation pressure, stagnation temperature, and dew point temperature controlled. The test section is 7.1 feet square and has a sting-type model support system with tunnel wall mounts available. Six-component moment type internal balances are commonly used with balance output recorded digitally on magnetic tape for reduction at a later time.

Examples of operating conditions are:

Mach Number	0.2 to 0.3	0.4 to 1.0	1.03 to 1.2	1.3
Stagnation pressure, atm.	0.25 to 2.0	0.25 to 1.7	0.25 to 1.4	0.25
Stagnation temperature, °R	580	580	580	580
Dynamic pressure, lb/ft ²	14 to 250	53 to 1333	203 to 1232	226 to 906
Reynolds number x 10 ⁻⁶ /ft	0.3 to 3.6	0.6 to 7.0	1.0 to 5.9	1.0 to 4.2

TEST CONDITIONS

Tunnel conditions existing during the tests are summarized in Table I (Test Conditions). The model was sting supported and the aerodynamic forces and moments were measured by an internally mounted six-component strain-gage balance. Model angle of attack was varied from about -2° to 22° at a sideslip angle of 0°.

DATA REDUCTION

The aerodynamic forces and moments have been reduced to coefficient form based on the following reference values:

WING NO. 1 (LO-100)

S_{ref} = total or theoretical wing projected area = 175.7376 sq. in.

l_{ref} = body length = 25.510 in.

b_{ref} = total wing span = 19.7156 in.

WING NO. 2 (W-33)

$$S_{ref} = 171.4720 \text{ sq. in.}$$

$$l_{ref} = 25.510 \text{ in.}$$

$$b_{ref} = 20.3597 \text{ in.}$$

WING NO. 3 (MSC-049)

$$S_{ref} = 173.1312 \text{ sq. in.}$$

$$l_{ref} = 25.510 \text{ in.}$$

$$b_{ref} = 20.9096 \text{ in.}$$

The moments have been reduced about a center of gravity located at 66 percent of the fuselage length. This point is:

$$\text{Fus. Sta.} = 16.8366 \text{ inches}$$

$$\text{Water line} = 0.0 \text{ (centerline of payload bay)}$$

$$\text{Body line} = 0.0$$

All data are presented as uncorrected for model base pressure effects; however, base pressure coefficients are presented for both the base and cavity regions. Transition strips 1/16 inch wide composed of No. 120 sand grit were located 1.0 inch aft of the apex of the nose and 0.5 inch (measured in the streamwise direction) on the wing, fillet, and vertical tail.

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TABLE I. TEST CONDITIONS

[illegible]

TABLE II:

TEST: 8'-TPT 644

DATE: 4/25/73

DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)					TEST RUN NUMBERS
		α	β	WING Λ	SRE		-35	-30	-28	-26	-24	
RP5001	BW1VFB	A	0	1	532	0		90	89	88	87	86
02		T		T	60	T		115	114	113	112	111
03					65			110	109	108	107	106
04					70			105	104	103	102	101
05					75			100	99	98	97	96
06					78			95	94	93	92	91
07	BW2VFB			2	4.8			20	19	18	17	16
08					55			50	49	48	47	46
09					60			45	44	43	42	41
10					65			40	39	38	37	36
11					70			35	34	33	32	31
12					75			15	14	13	12	11
13					78			30	29	28	27	26
14					4.8	10		25	24	23	22	21
15					75	10		10	9	8	7	6

75 76

67

61

55

49

43

37

31

25

19

13

7

IDVAR (1)

IDVAR (2)

NDV

α OR β

SCHEDULES

COEFFICIENTS

A) $-2^\circ \rightarrow 22^\circ$, $Ad = 2^\circ$

TABLE II
(Concluded)[illegible]

TABLE III.--MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: BODY - BGENERAL DESCRIPTION: .01875 scale of LO-100 orbiter concept (DM3-DR-2023)

DRAWING NUMBER: _____

DIMENSIONS:

	<u>FULL-SCALE</u> <u>In. or In²</u>	<u>MODEL SCALE</u> <u>In.</u>
Length	<u>1350</u>	<u>25.510</u>
Max. Width	<u>252.30</u>	<u>4.725</u>
Max. Depth	<u>231.0</u>	<u>4.331</u>
Fineness Ratio	_____	_____
Area		
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III.-(CONTINUED)

MODEL COMPONENT: WING - W1 (LO-100 WING)

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS:FULL-SCALE
in. or in.²MODEL SCALETOTAL DATA

Area	499,824	175.7376
Planform	_____	_____
Wetted	_____	_____
Span (equivalent)	1051.512	19.7156
Aspect Ratio	2.212	2.212
Rate of Taper	_____	_____
Taper Ratio	.15	.15
Dihedral Angle, degrees	7.0°	7.0°
Incidence Angle, degrees	+ 1° root, -4° tip	+ 1° root, -4° tip
Aerodynamic Twist, degrees	_____	_____
Toe-In Angle	_____	_____
Cant Angle	_____	_____
Sweep Back Angles, degrees	53.2°	53.2°
Leading Edge	0.0°	0.0°
Trailing Edge	_____	_____
0.25 Element Line	_____	_____
Chords:		
Root (Wing Sta. 0.0)	826.8	15.502
Tip, (equivalent)	124.02	2.325
MAC	561.984	10.537
Fus. Sta. of .25 MAC	928.508	17.410
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____
Airfoil Section		
Root	NACA 0006-64	_____
Tip	NACA 0012-64	_____

EXPOSED DATA

Area	_____	_____
Span, (equivalent)	_____	_____
Aspect Ratio	_____	_____
Taper Ratio	_____	_____
Chords		
Root	_____	_____
Tip	_____	_____
MAC	_____	_____
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____

TABLE III.-(CONTINUED)

MODEL COMPONENT: WING - W2 (WING - 33)

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS:

FULL-SCALE
in. or in.²MODEL SCALE
in. or in.²TOTAL DATA

Area
 Planform
 Wetted
 Span (equivalent)
 Aspect Ratio
 Rate of Taper
 Taper Ratio
 Dihedral Angle, degrees
 Incidence Angle, degrees
 Aerodynamic Twist, degrees
 Toe-In Angle
 Cant Angle
 Sweep Back Angles, degrees
 Leading Edge
 Trailing Edge
 0.25 Element Line
 Chords:
 Root (Wing Sta. 0.0)
 Tip, (equivalent)
 MAC
 Fus. Sta. of .25 MAC
 W.P. of .25 MAC
 B.L. of .25 MAC
 Airfoil Section
 Root
 Tip

487,742.7

171.472

1085.85

20.3597

2.4154

2.4154

.13465

.13465

7.0°

7.0°

1.5°

1.5°

None

None

46.825°

46.825°

-11.154

-11.154°

792.091

14.8517

106.667

2.0000

536.520

10.0600

-

-

-

-

-

-

-

-

NACA 0008-64

NACA 0008-64

NACA 0012-64

NACA 0012-64

EXPOSED DATA

Area
 Span, (equivalent)
 Aspect Ratio
 Taper Ratio
 Chords
 Root
 Tip
 MAC
 Fus. Sta. of .25 MAC
 W.P. of .25 MAC
 B.L. of .25 MAC

TABLE III.-(CONTINUED)

MODEL COMPONENT: WING - W3 (MSC 049 WING)GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS:

FULL-SCALE
In. or In.²MODEL SCALE
In. or In.²TOTAL DATA

Area	492,462.1	173.1312
Planform	----	----
Wetted	1115.2	20.9096
Span (equivalent)	2.525	2.525
Aspect Ratio	----	----
Rate of Taper	.200	.200
Taper Ratio	7°	7°
Dihedral Angle, degrees	1.5°	1.5°
Incidence Angle, degrees	None	None
Aerodynamic Twist, degrees	----	----
Toe-In Angle	----	----
Cant Angle	----	----
Sweep Back Angles, degrees	35°	35°
Leading Edge	-19.6°	-19.6°
Trailing Edge	----	----
0.25 Element Line	----	----
Chords:		
Root (Wing Sta. 0.0)	736.084	13.8016
Tip, (equivalent)	147.114	2.7584
MAC	----	----
Fus. Sta. of .25 MAC	----	----
W.P. of .25 MAC	----	----
B.L. of .25 MAC	----	----
Airfoil Section	NACA 0008-64	NACA 0008-64
Root	"	"
Tip	----	----

EXPOSED DATA

Area	_____	_____
Span, (equivalent)	_____	_____
Aspect Ratio	_____	_____
Taper Ratio	_____	_____
Chords		
Root	_____	_____
Tip	_____	_____
MAC	_____	_____
Fus. Sta. of .25 MAC	_____	_____
W.P. of .25 MAC	_____	_____
B.L. of .25 MAC	_____	_____

TABLE III.-(CONTINUED)

MODEL COMPONENT: Vertical Tail-VGENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS:

FULL-SCALE
In. or In.²MODEL SCALE
In. or In.²TOTAL DATA

Area	69,836	24.552
Planform	-----	-----
Wetted	396.168	6.922
Span	1.414	1.414
Aspect Ratio	-----	-----
Rate of Taper	.412	.412
Taper Ratio	-----	-----
Dihedral Angle, degrees	-----	-----
Incidence Angle, degrees	-----	-----
Aerodynamic Twist, degrees	-----	-----
Toe-In Angle	-----	-----
Cant Angle	-----	-----
Sweep Back Angles, degrees	-----	-----
Leading Edge	+5°	45°
Trailing Edge	25°	25°
0.25 Element Line	-----	-----
Chords:	-----	-----
Root (Wing Sta. 0.0)	288.0	5.400
Tip, (equivalent)	90.347	1.694
MAC	-----	-----
Fus. Sta. of .25 MAC	-----	-----
W.P. of .25 MAC	-----	-----
B.L. of .25 MAC	-----	-----
Airfoil Section	NACA 0012-64	NACA 0012-64
Root	-----	-----
Tip	"	"

EXPOSED DATA

Area	-----	-----
Span, (equivalent)	-----	-----
Aspect Ratio	-----	-----
Taper Ratio	-----	-----
Chords	-----	-----
Root	-----	-----
Tip	-----	-----
MAC	-----	-----
Fus. Sta. of .25 MAC	-----	-----
W.P. of .25 MAC	-----	-----
B.L. of .25 MAC	-----	-----

TABLE III.-(CONCLUDED)

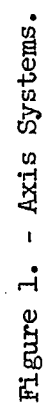
MODEL COMPONENT: BODY FLAP - FBGENERAL DESCRIPTION: _____

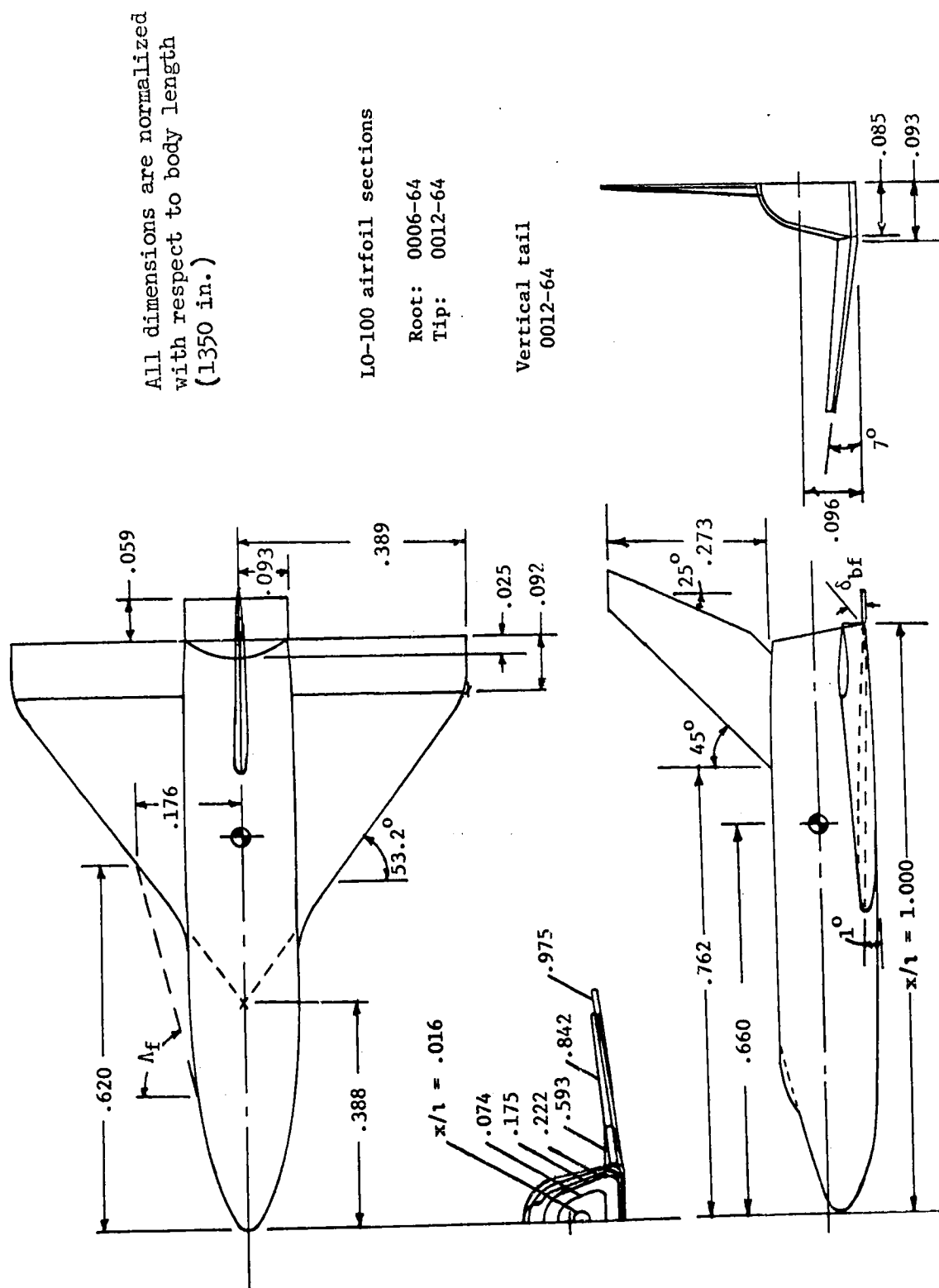
_____DRAWING NUMBER: _____DIMENSIONS:

	<u>FULL-SCALE</u> <u>in. or in.²</u>	<u>MODEL SCALE</u> <u>in. or in.²</u>
Area	<u>9160.0</u>	<u>3.220</u>
Span (equivalent)	<u>252.0</u>	<u>4.725</u>
Inb'd equivalent chord	<u>79.65</u>	<u>1.493</u>
Outb'd equivalent chord	<u>79.65</u>	<u>1.493</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>---</u>	<u> </u>
At Outb'd equiv. chord	<u>---</u>	<u> </u>
Sweep Back Angles, degrees		
Leading Edge	<u>---</u>	<u> </u>
Tailing Edge	<u>---</u>	<u> </u>
Hingeline	<u>---</u>	<u> </u>
Area Moment (Normal to hinge line)	<u>---</u>	<u> </u>

TABLE IV. - PLANFORM AREA OF FILLETS

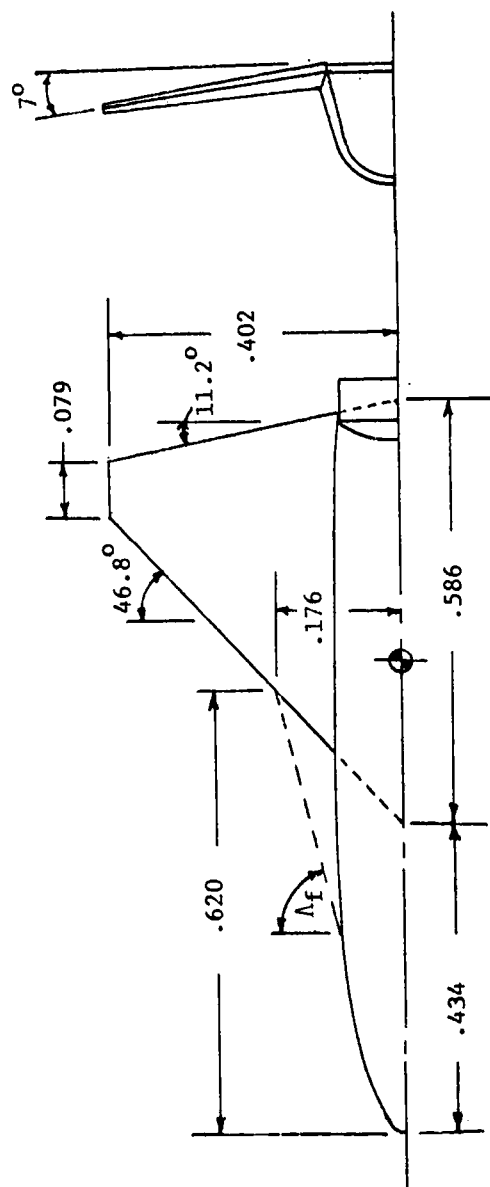
WING NUMBER	Λ_f (degrees)	S_f/S_{REF}	S_{REF} (inches ²)
1 (LO-100)	78	.382	<div style="text-align: center;"> <u>175.7376</u> ↓ </div>
	75	.272	
	70	.161	
	65	.093	
	60	.046	
	55	.012	
2 (W-33)	78	.421	<div style="text-align: center;"> <u>171.4720</u> ↓ </div>
	75	.309	
	70	.195	
	65	.125	
	60	.078	
	55	.043	
3 (MSC-049)	78	.459	<div style="text-align: center;"> <u>173.1312</u> ↓ </div>
	75	.348	
	70	.235	
	65	.166	
	60	.119	
	55	.084	
	50	.057	
	45	.035	





(a) Wing Number 1 (LO-100)

Figure 2. - Sketch of Models Used in Investigation.



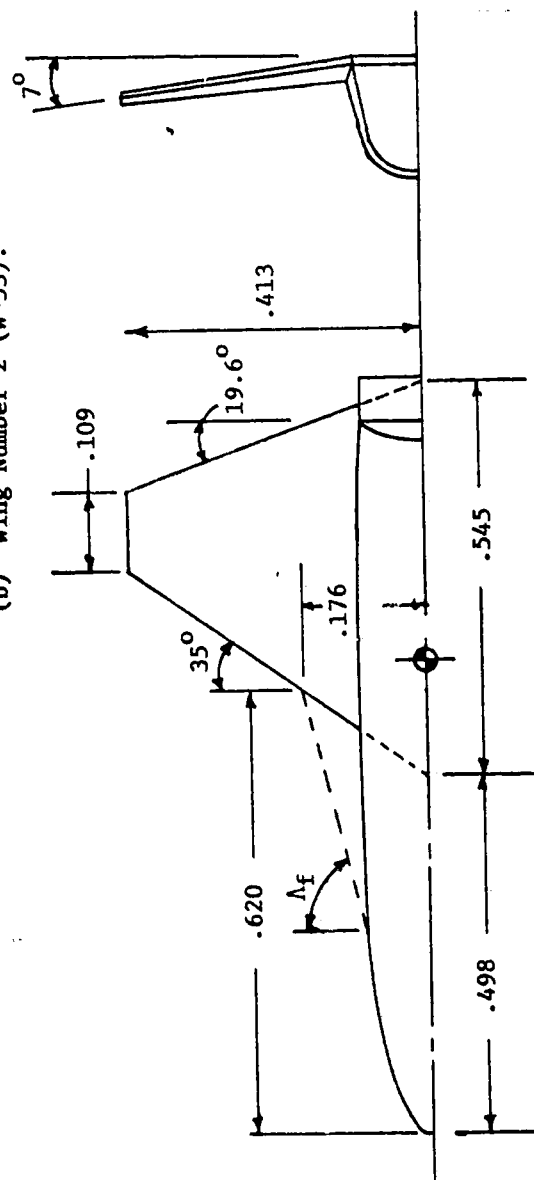
W-33 airfoil sections

Root: 0008-64

Tip : 0012-64

Incidence: 1.5°

(b) Wing Number 2 (W-33).



MSC 049 airfoil sections

Root: 0008-64

Tip : 0008-64

Incidence: 1.5°

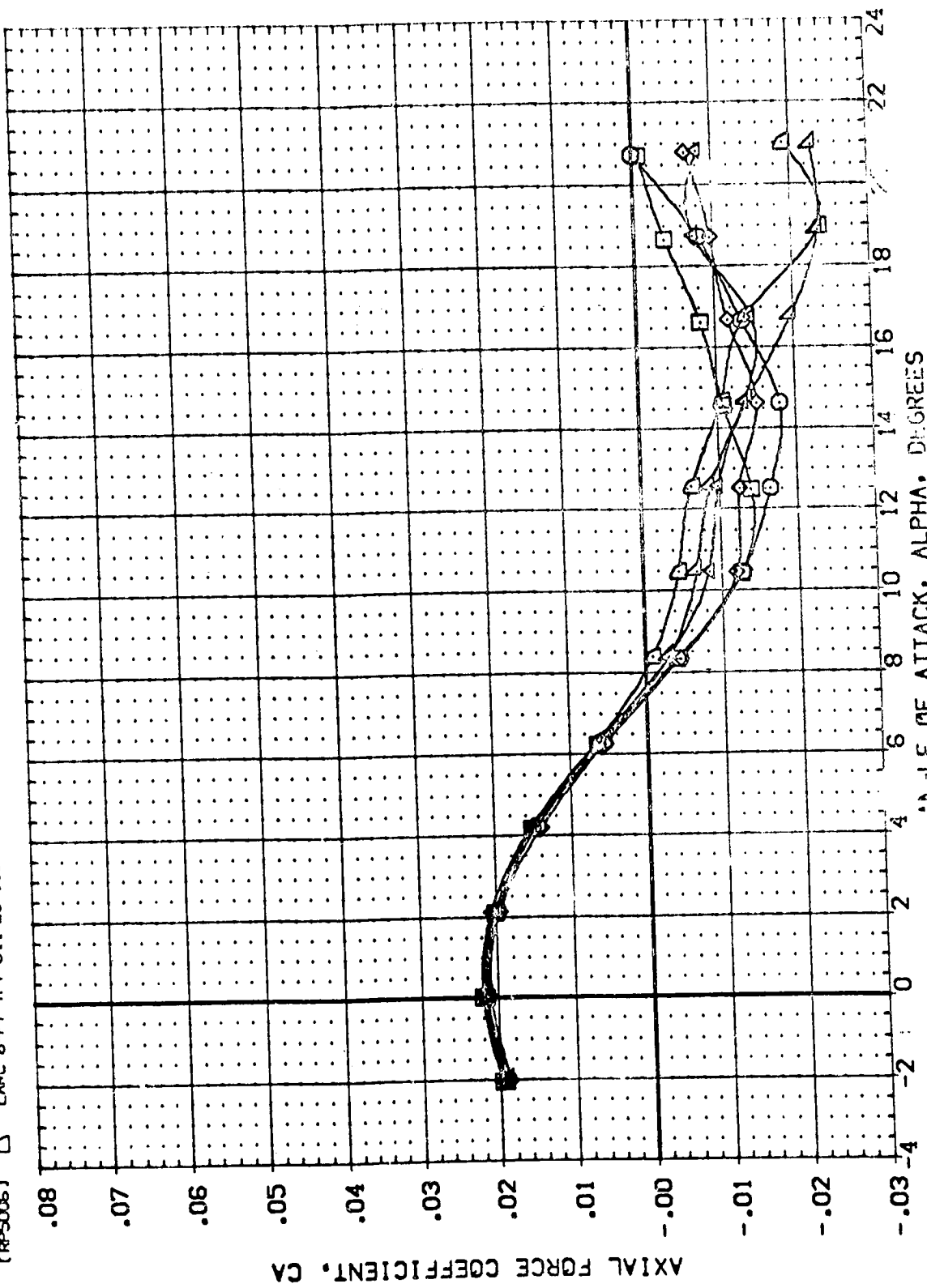
(c) Wing Number 3 (MSC-049).

Figure 2. - Concluded.

DATA FIGURES



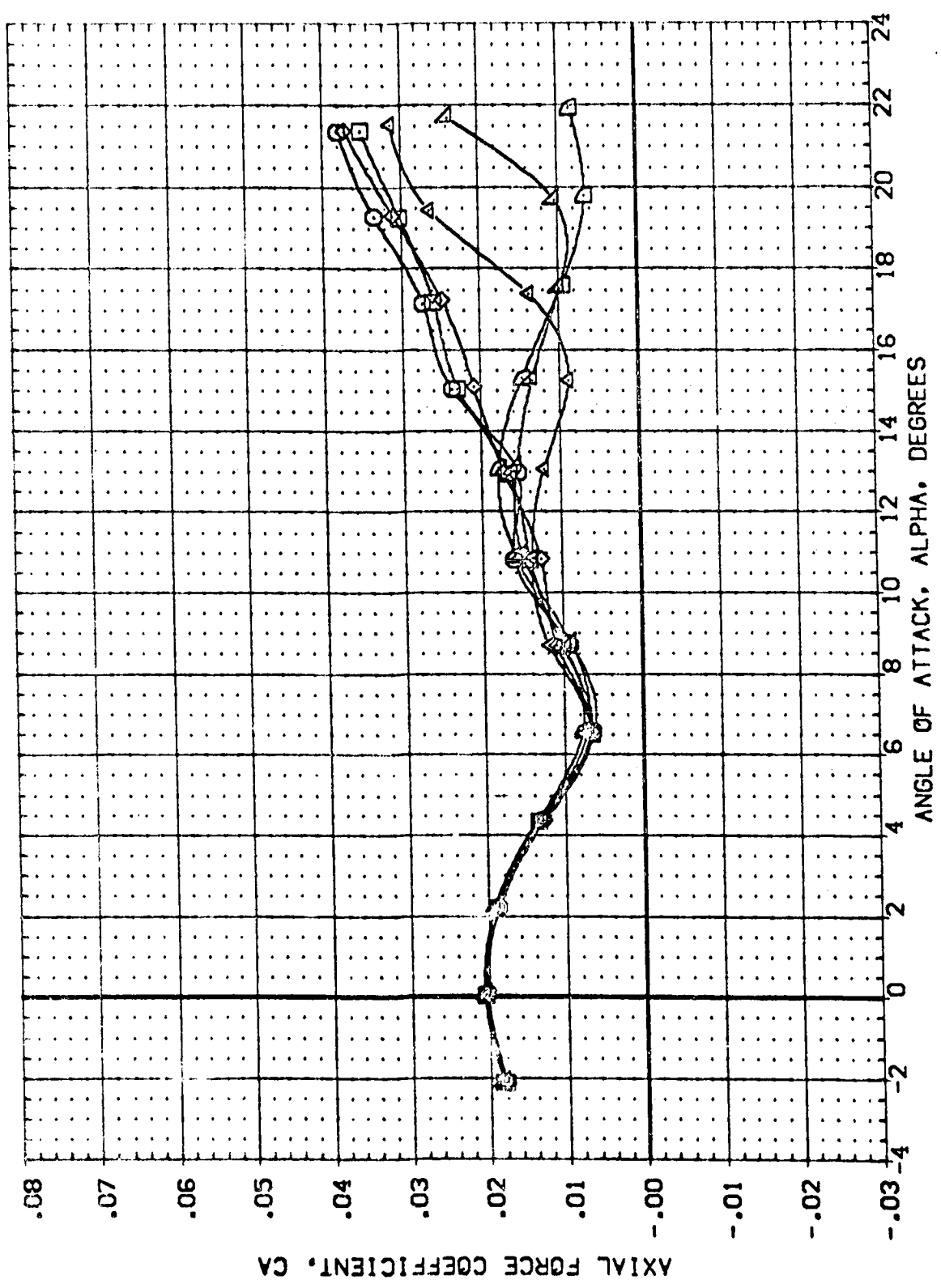
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDF	VINGW	RUOFLR	BOFLAP	REFERENCE INFORMATION
[RPS001]	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SO.IN
[RPS002]	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
[RPS003]	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
[RPS004]	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	70.000	1.000	.000	.000	XPRP 16.8633 INCHES
[RPS005]	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	75.000	1.000	.000	.000	YPRP .0000 INCHES
[RPS006]	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	78.000	1.000	.000	.000	ZPRP .0188 INCHES



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(A)MACH = .35

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LA/D4F	WINGNO	RUEFLR	BO/LAP	REFERENCE INFORMATION
(RPS001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	53.200	1.000	.000	.000	SREF 175.7376
(RPS002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	60.000	1.000	.000	.000	LREF 25.5100
(RPS003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	65.000	1.000	.000	.000	BREF 19.7156
(RPS004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	70.000	1.000	.000	.000	XREF 15.8633
(RPS005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	75.000	1.000	.000	.000	YREF .0000
(RPS006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BVI/VFB)	78.000	1.000	.000	.000	ZREF .0000
						SCALE .0188

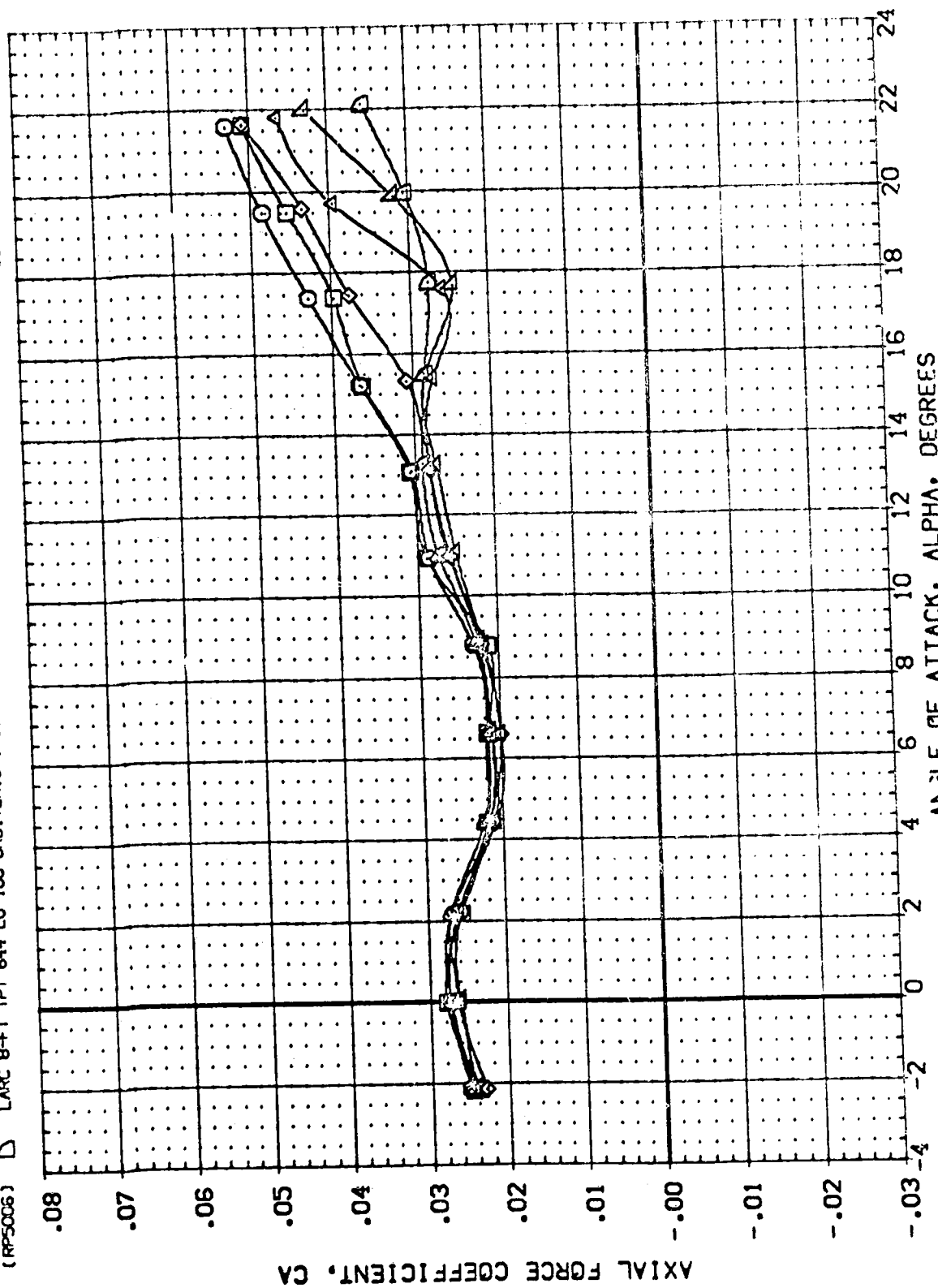


EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(B)MACH = .80



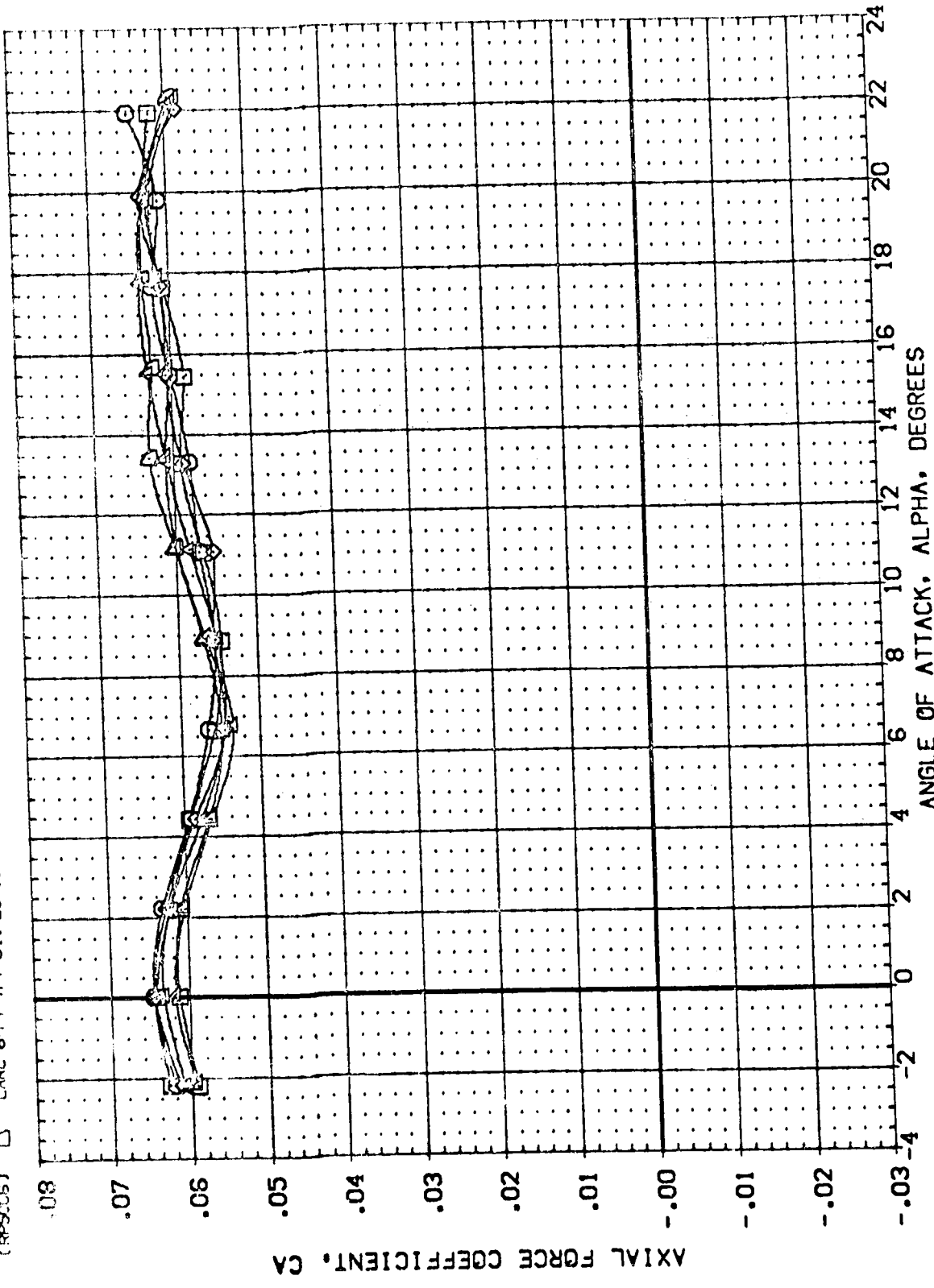
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WING	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376
(RP5002)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100
(RP5003)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156
(RP5004)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	YMRP 16.8633
(RP5005)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	ZMRP .0000
(RP5006)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	SCALE .0188



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(C)MACH = .90

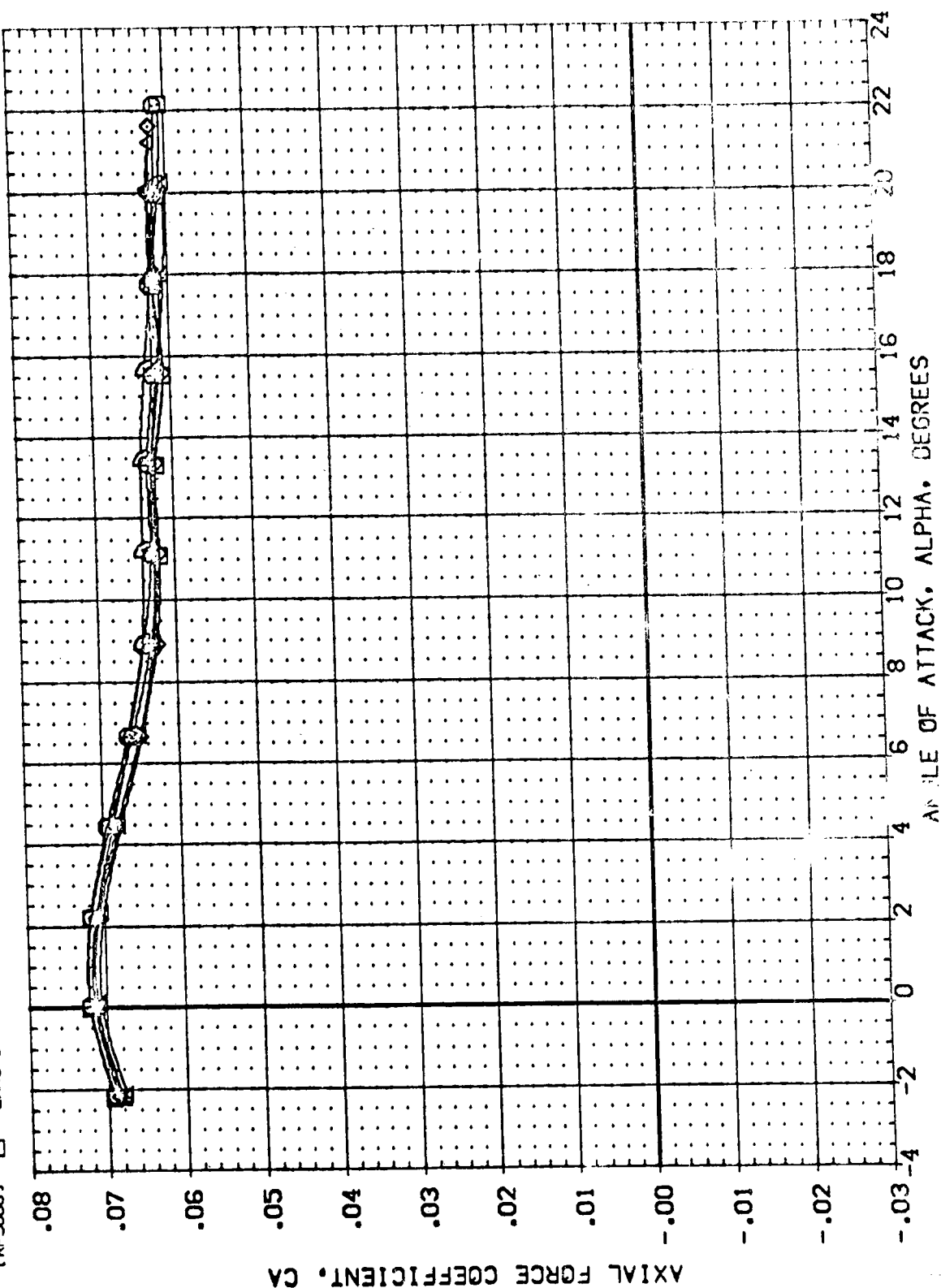
DATA SET SY/00L		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(RPS001)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(SVIVFB)	53.200
(RPS002)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BVIVFB)	60.000
(RPS003)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BVIVFB)	65.000
(RPS004)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BVIVFB)	70.000
(RPS005)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BVIVFB)	75.000
(RPS006)	LARC 8-FT TPT 644	LO-100	CRBITTER(SHIPS)	(BVIVFB)	78.000



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(D)MACH = .98

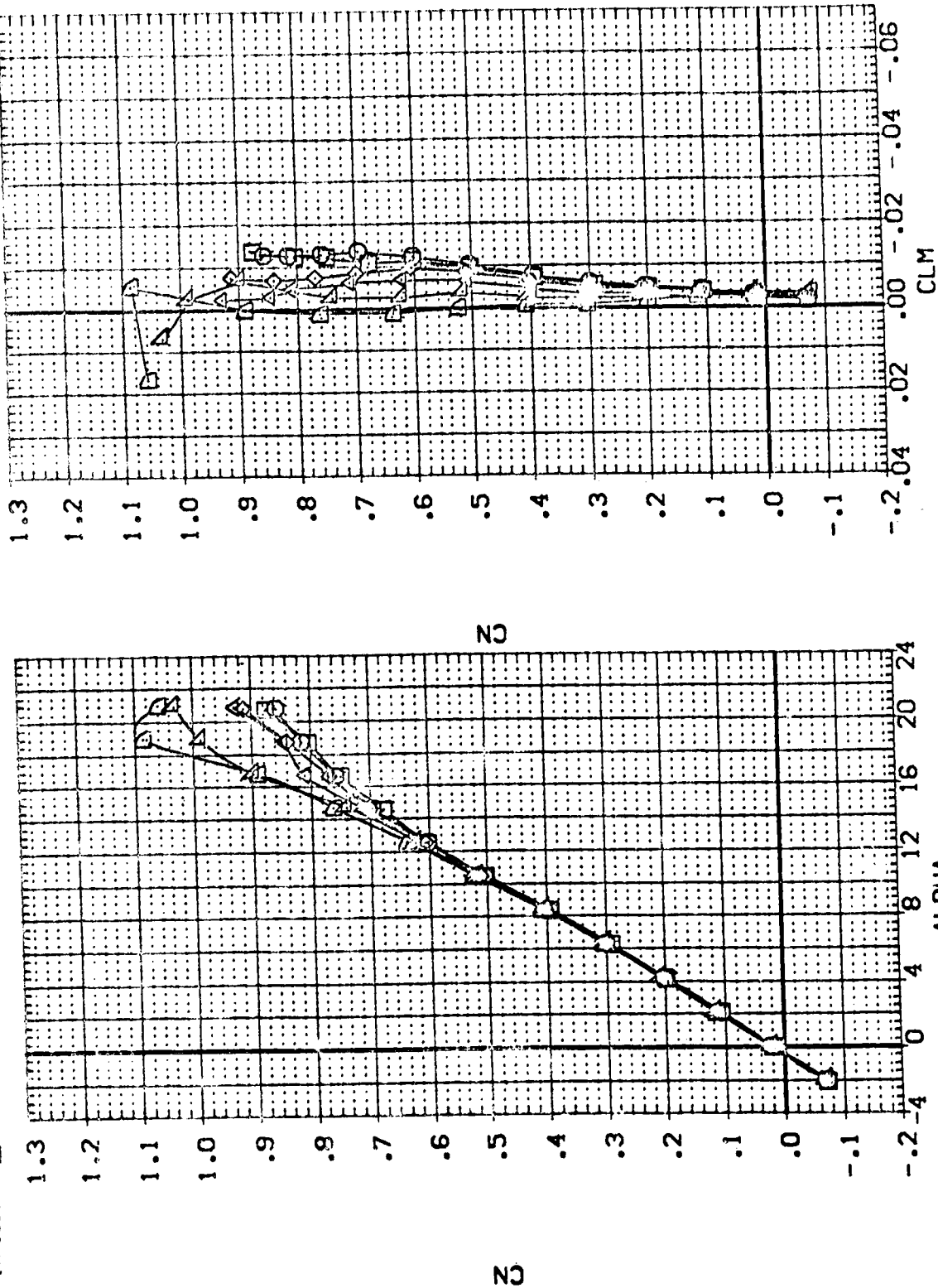
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RUFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	□	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ. IN.
(RP5002)	□	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	□	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	□	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XMRP 16.8633 INCHES
(RP5005)	□	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RP5006)	□	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZMRP .0000 INCHES
							SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(E)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WING	RUEFLR	SETUP	REFERENCE INFORMATION
[RSC001]	LARC 8-ET TPT 644 LG-100 CRBTER(SHIPS) (BW1VFB)	53.200	1.000	.000	.000	SREF 175.7375
[RSC002]	LARC 8-ET TPT 644 LG-100 CRBTER(SHIPS) (BW1VFB)	60.000	1.000	.000	.000	LRFF 25.5100
[RSC003]	LARC 8-ET TPT 644 LG-100 CRBTER(SHIPS) (BW1VFB)	65.000	1.000	.000	.000	SRFF 29.7155
[RSC004]	LARC 8-ET TPT 644 LG-100 CRBTER(SHIPS) (BW1VFB)	70.000	1.000	.000	.000	WRFF 36.8633
[RSC005]	LARC 8-ET TPT 644 LG-100 CRBTER(SHIPS) (BW1VFB)	75.000	1.000	.000	.000	VRFF .0000
[RSC006]	LARC 8-ET TPT 644 LG-100 CRBTER(SHIPS) (BW1VFB)	79.000	1.000	.000	.000	VRFF .0000
						SCALE .0189

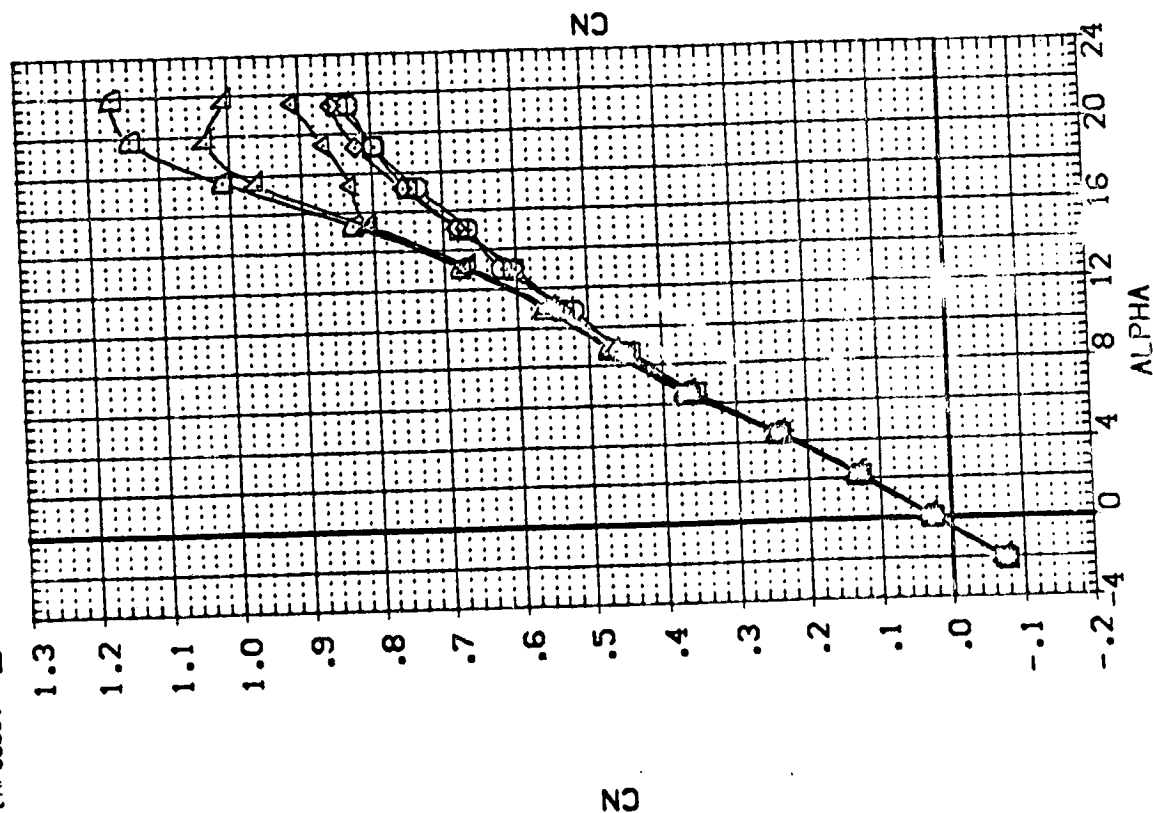
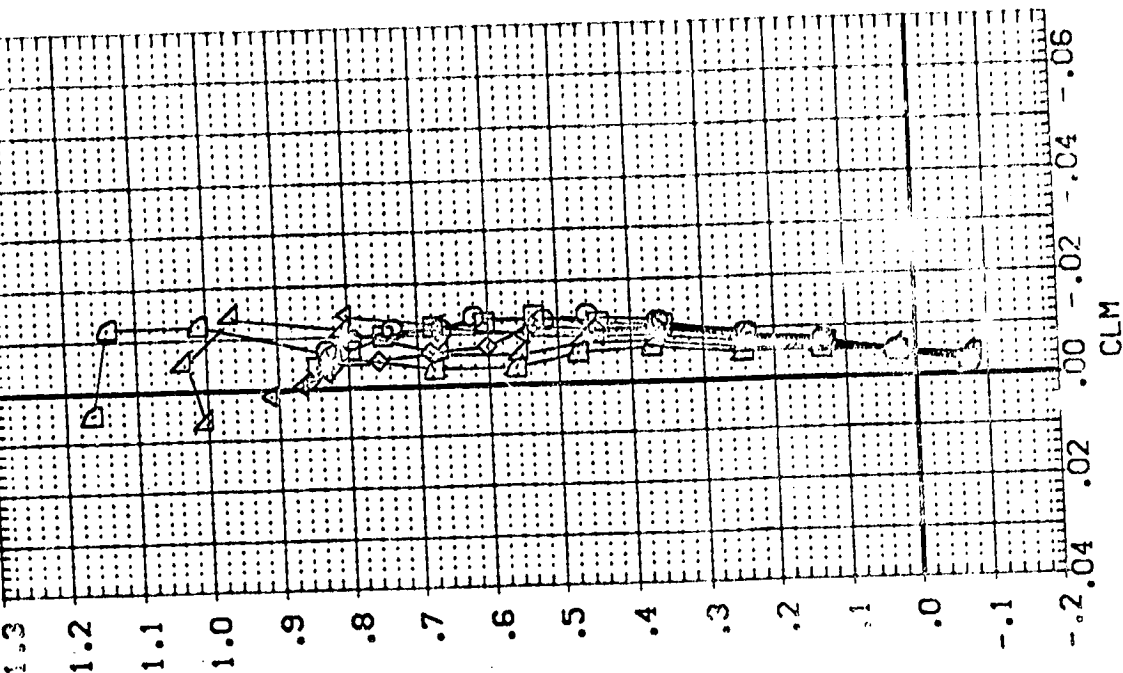


EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(A)MACH = .35



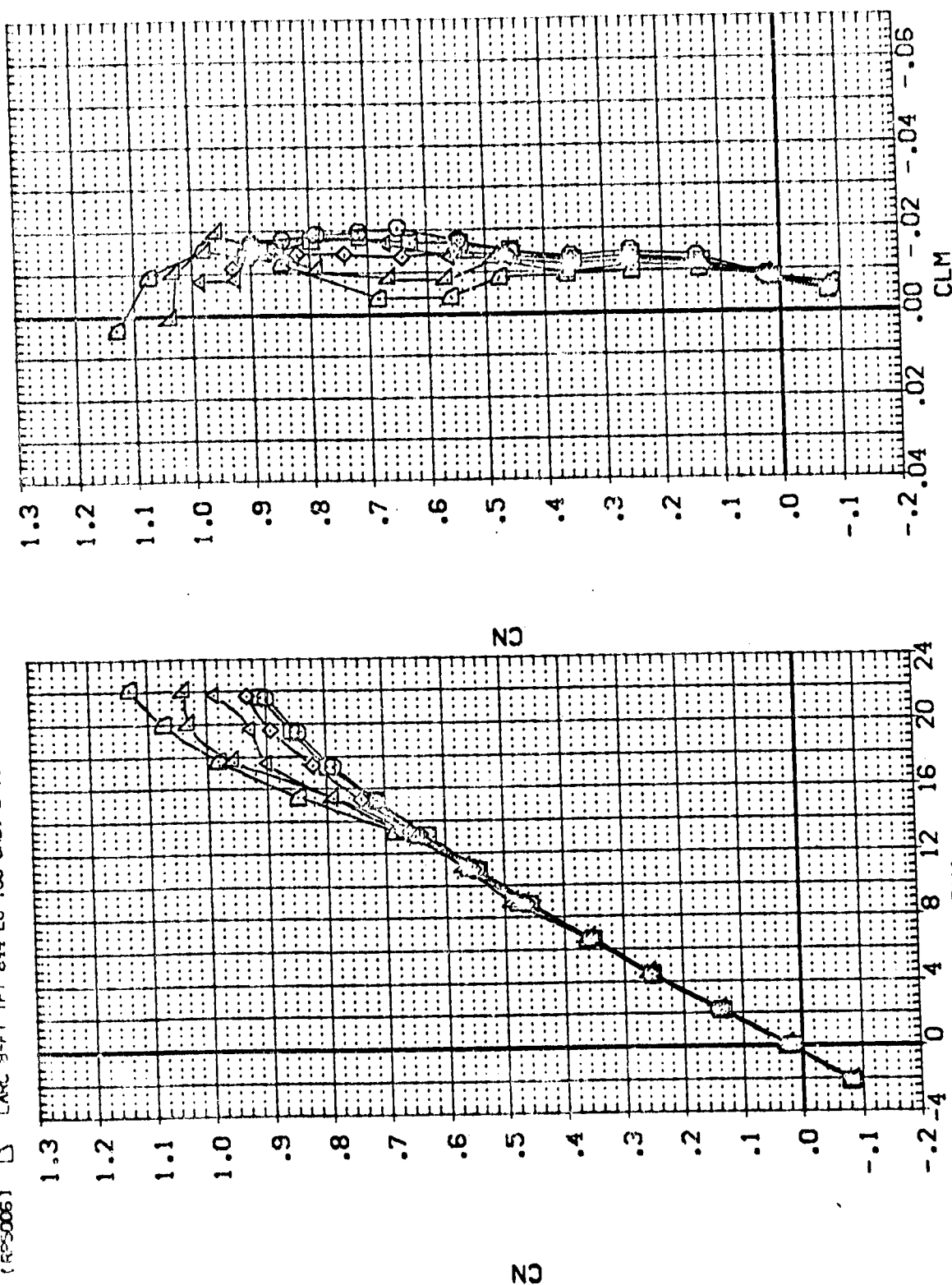
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ.IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XPRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YPRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZPRP .0188 INCHES
						SCALE



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDF	VINGND	P.CSFLR	EOLAP	RESERVE
[095001]	8-ET TPT 644 LG-100 CGB1TER(S)PS	53,200	1,000	.000	.000	SCL 1500000
[N5002]	LARC 8-ET TPT 644 LG-100 CGB1TER(S)PS	50,000	1,000	.000	.000	SCL 1500000
[N5003]	LARC 8-ET TPT 644 LG-100 CGB1TER(S)PS	55,000	1,000	.000	.000	SCL 1500000
[N5004]	LARC 8-ET TPT 644 LG-100 CGB1TER(S)PS	70,000	1,000	.000	.000	SCL 1500000
[N5005]	LARC 8-ET TPT 644 LG-100 CGB1TER(S)PS	75,000	1,000	.000	.000	SCL 1500000
		78,000	1,000	.000	.000	SCL 1500000

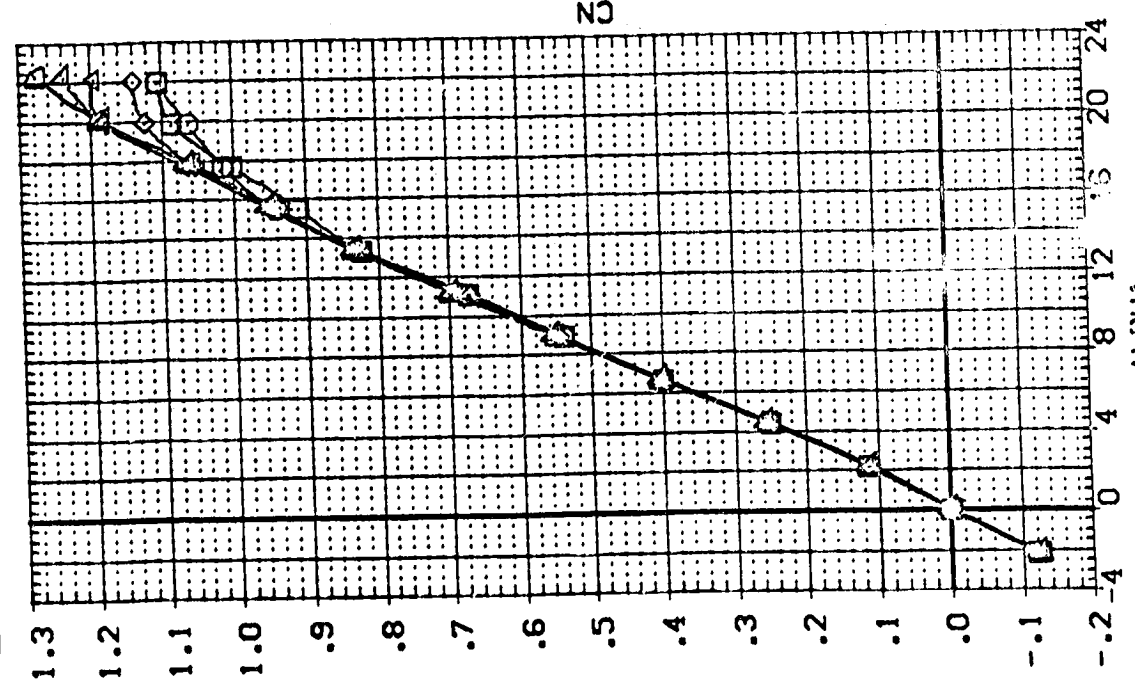
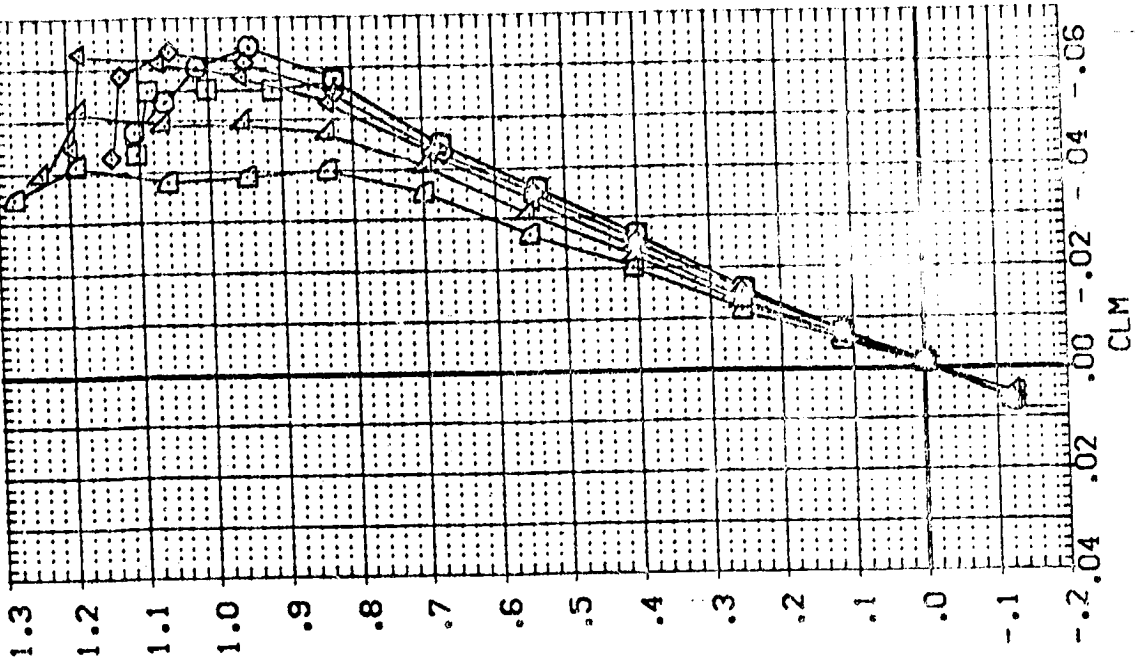


EFFECT OF FILLET ON LO-100 WING (B W I V F B)

$$\{C\}MACH = .90$$



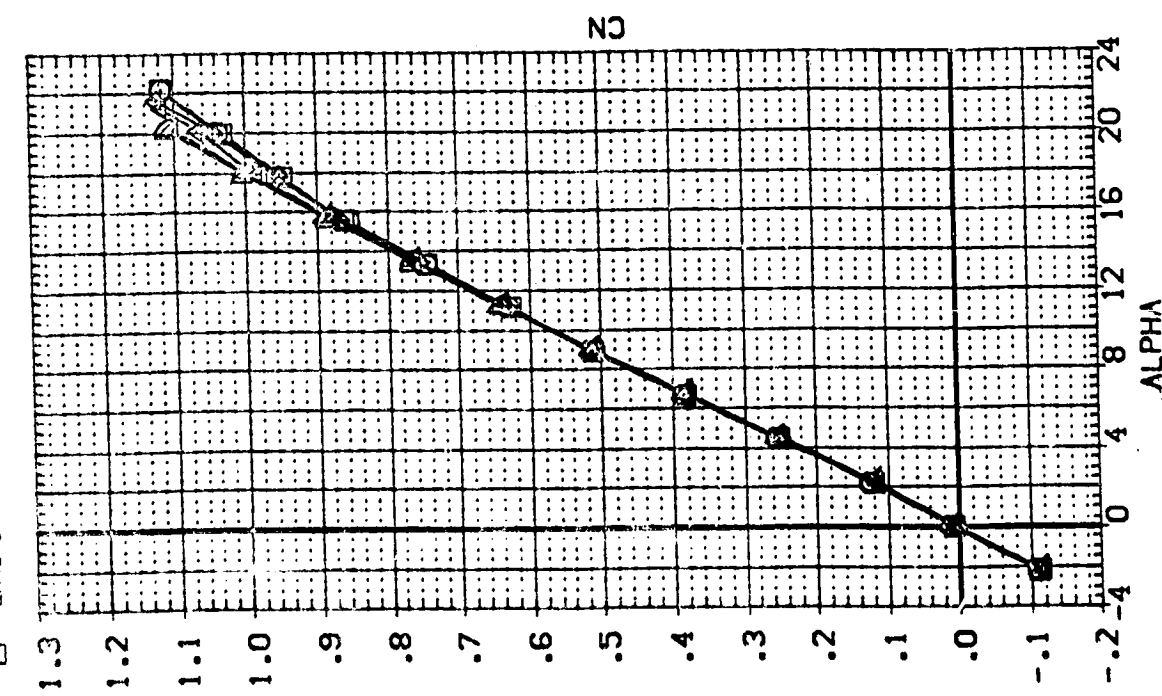
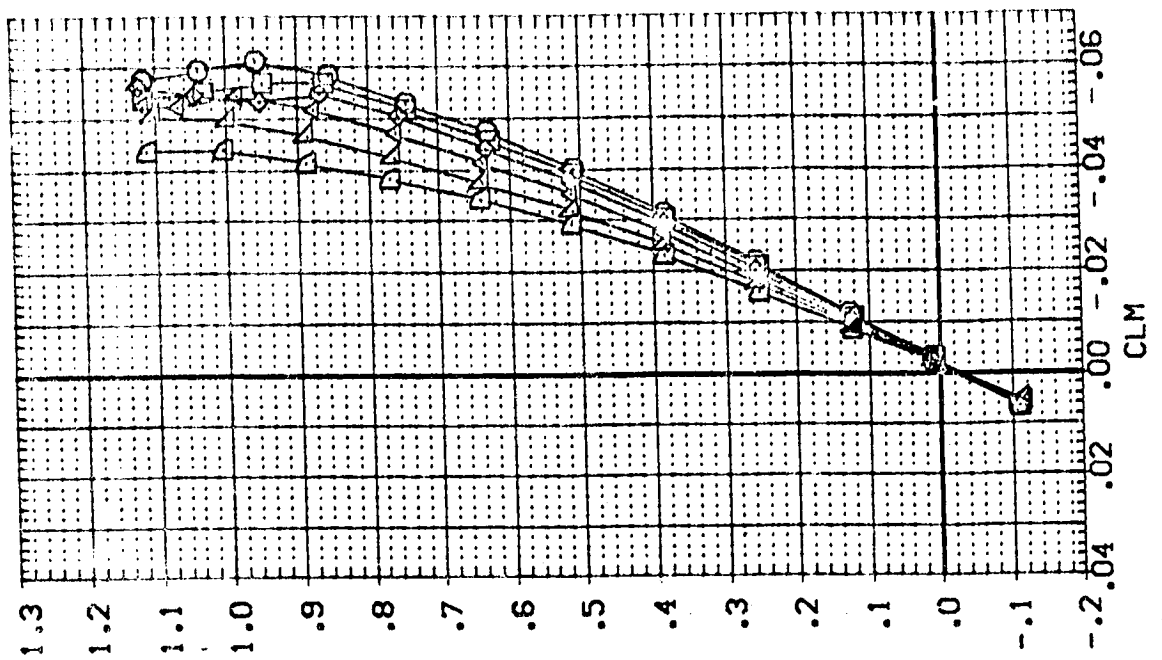
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ.IN.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7155 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XREF 16.6633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZREF .0188 INCHES
						SCALE



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

COMACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	WING	RUFLR	EDFLAP	REFERENCE INFORMATION
(RFS001)	LARC 8-FT TPT 644 LG-100 CRGITER(SHIPS) (BVLVFB)	53.200	.000	.000	SREF 175.7376
(RFS002)	LARC 8-FT TPT 644 LG-100 CRGITER(SHIPS) (BVLVFB)	50.000	.000	.000	LRREF 175.7376
(RFS003)	LARC 8-FT TPT 644 LG-100 CRGITER(SHIPS) (BVLVFB)	55.000	.000	.000	BRREF 19.7156
(RFS004)	LARC 8-FT TPT 644 LG-100 CRGITER(SHIPS) (BVLVFB)	70.000	.000	.000	XRREF 19.7156
(RFS005)	LARC 8-FT TPT 644 LG-100 CRGITER(SHIPS) (BVLVFB)	75.000	.000	.000	YRREF 19.7156
(RFS006)	LARC 8-FT TPT 644 LG-100 CRGITER(SHIPS) (BVLVFB)	78.000	.000	.000	ZRREF 19.7156
					SCALE .0188

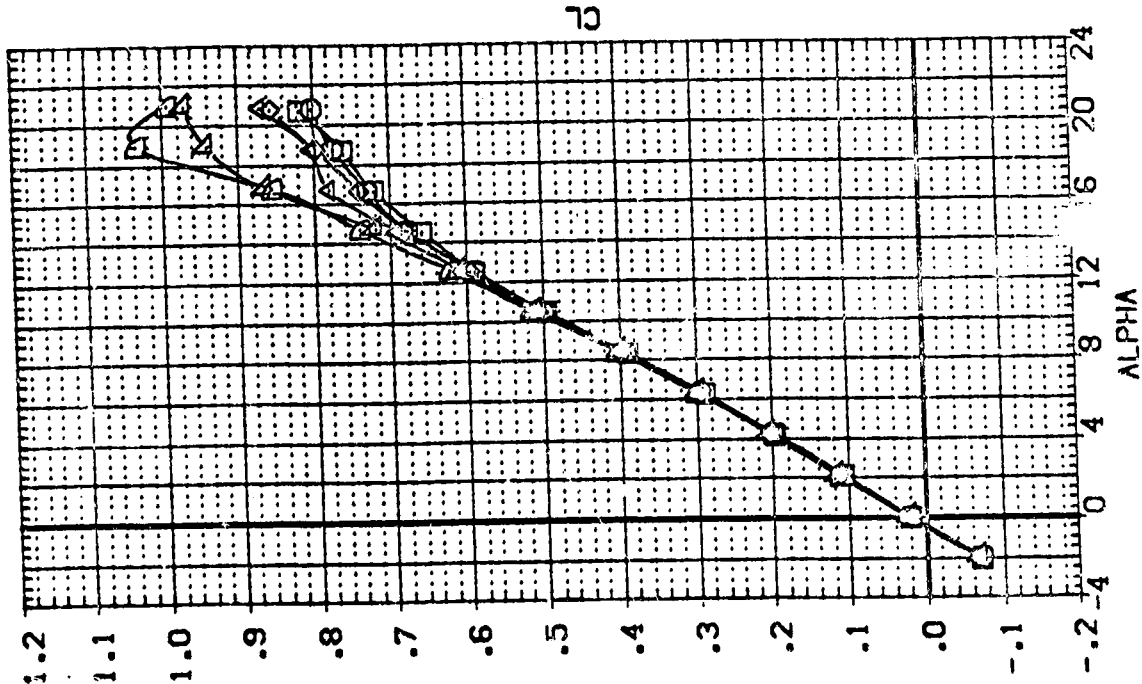
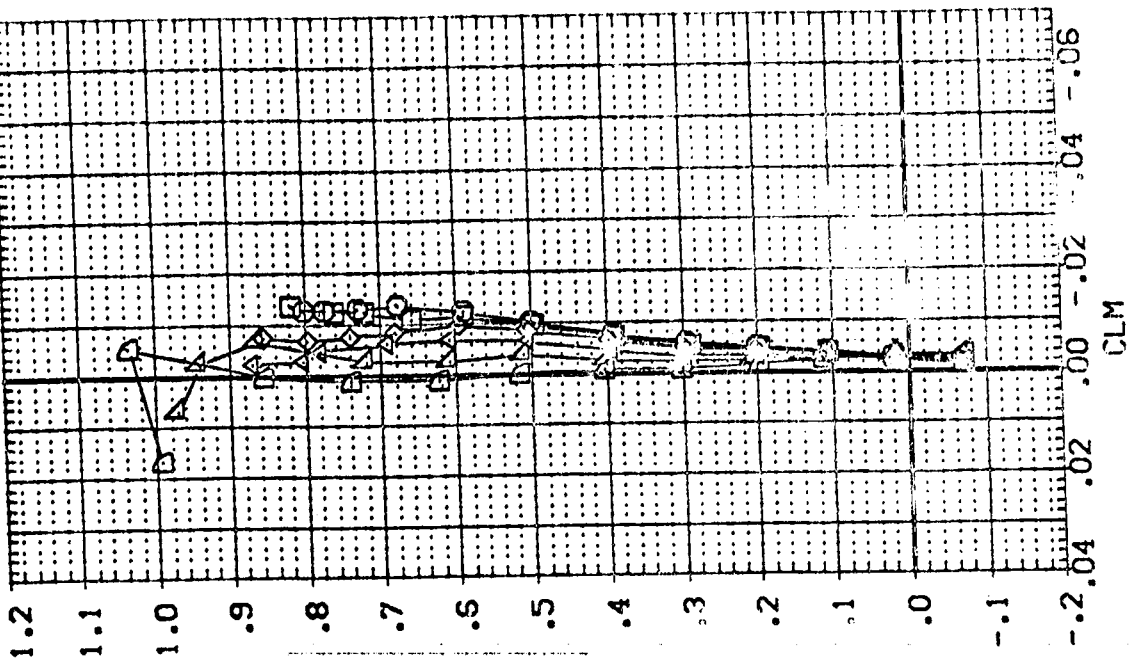


EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(E)MACH = 1.20



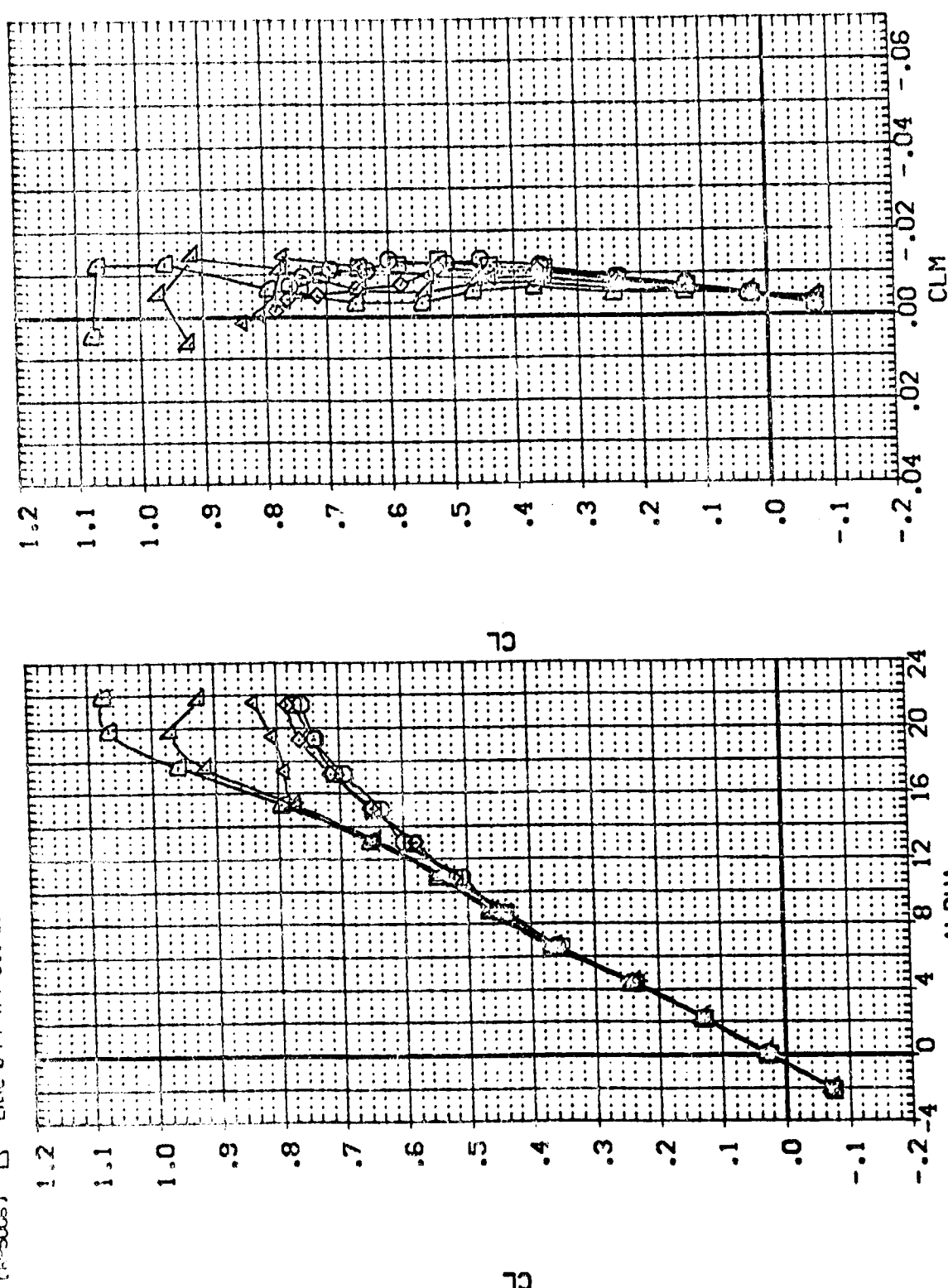
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAOAF	VINGO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV/VFB)	53.200	1.000	.000	.000	SREF 175.7376 SO.IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV/VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV/VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV/VFB)	70.000	1.000	.000	.000	XVREF 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV/VFB)	75.000	1.000	.000	.000	YVREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV/VFB)	78.000	1.000	.000	.000	ZVREF .0188 INCHES
						SCALE



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(A)MACH = .35

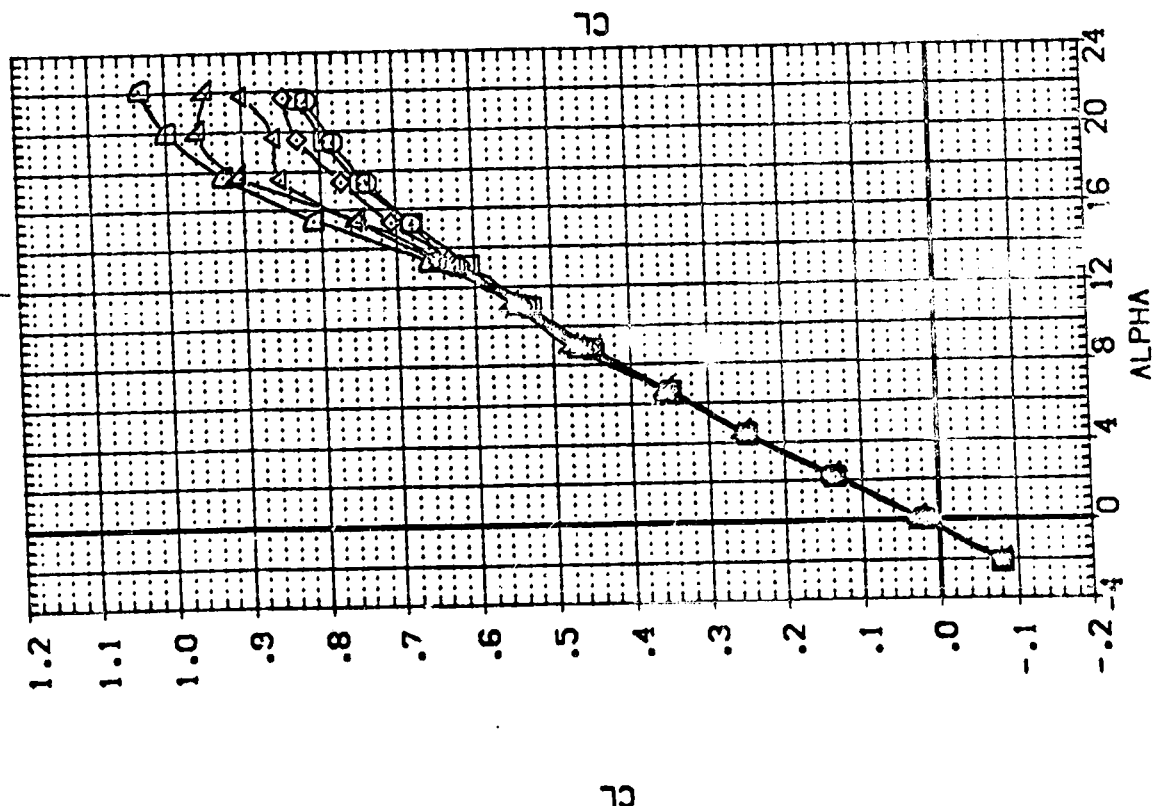
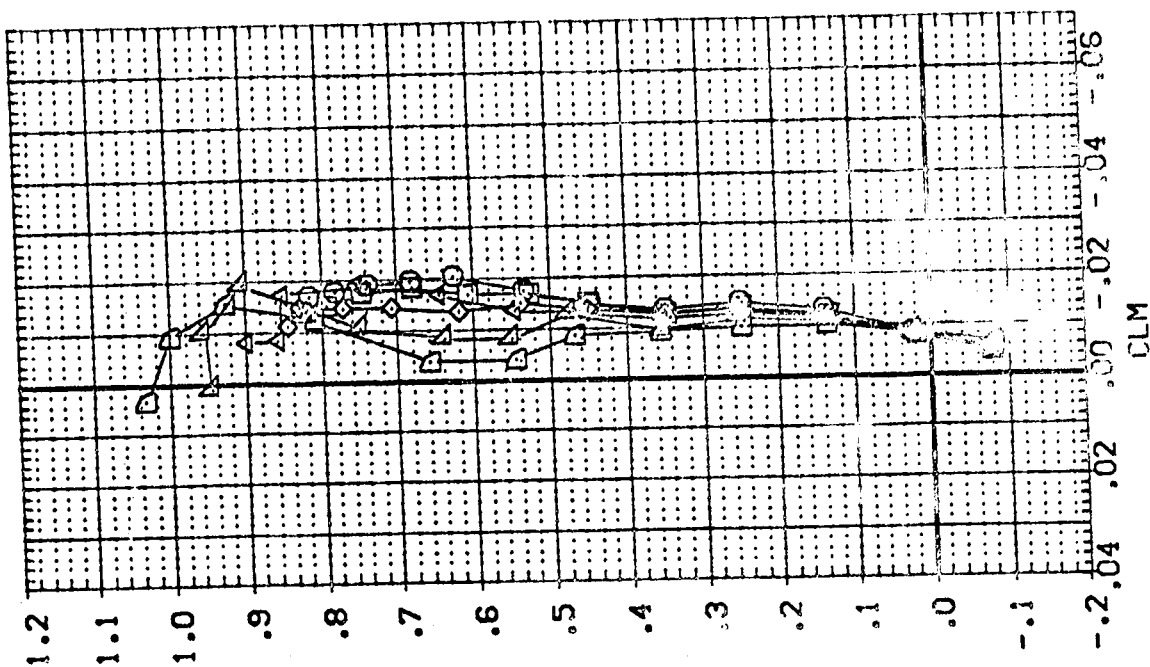
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDING	WING	RUELR	ENDLAP	REFERENCE	SCALE
[P-5001]	LARC 8-FT TPT 644 LG-100 CR8TER(SHIPS) (B1VFB)	53.200	1.000	.000	.000	175.7308	1.000
[P-5002]	LARC 8-FT TPT 644 LG-100 CR8TER(SHIPS) (B1VFB)	50.000	1.000	.000	.000	175.7308	1.000
[P-5003]	LARC 8-FT TPT 644 LG-100 CR8TER(SHIPS) (B1VFB)	65.000	1.000	.000	.000	175.7308	1.000
[P-5004]	LARC 8-FT TPT 644 LG-100 CR8TER(SHIPS) (B1VFB)	70.000	1.000	.000	.000	175.7308	1.000
[P-5005]	LARC 8-FT TPT 644 LG-100 CR8TER(SHIPS) (B1VFB)	75.000	1.000	.000	.000	175.7308	1.000
[P-5006]	LARC 8-FT TPT 644 LG-100 CR8TER(SHIPS) (B1VFB)	78.000	1.000	.000	.000	175.7308	1.000



EFFECT OF FILLET ON LQ-100 WING (B W1 V FB)
 (B)MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMD	VING	RUDLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 50. IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XREF 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRBITTER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZREF .0188 SCALE



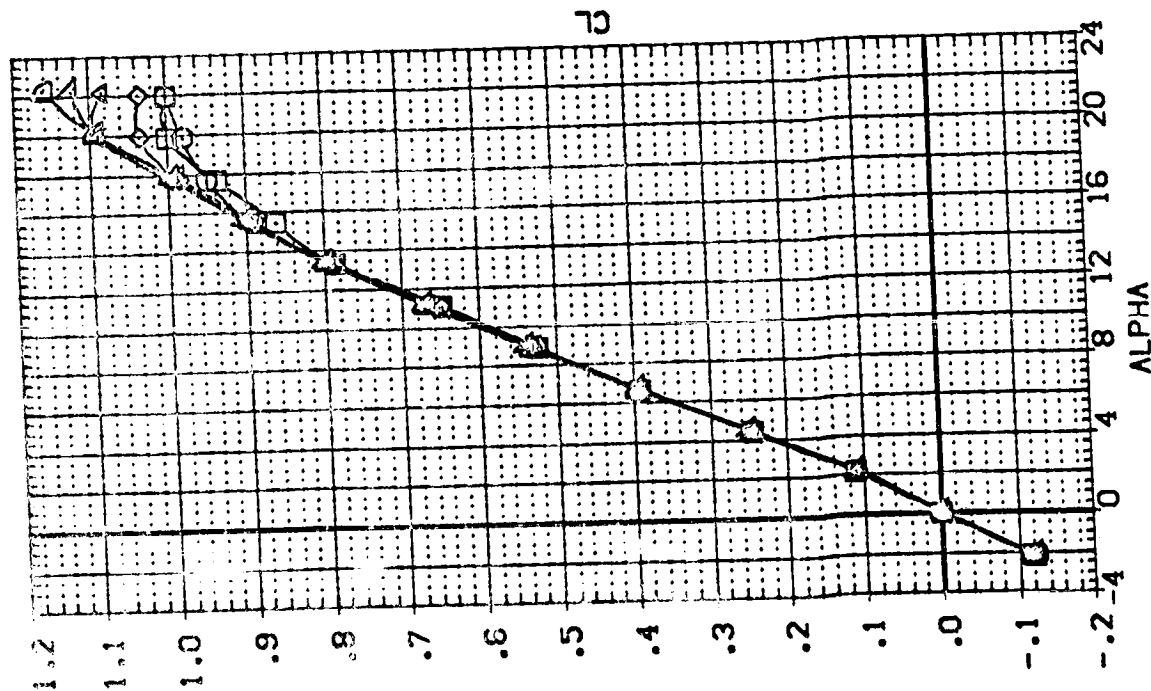
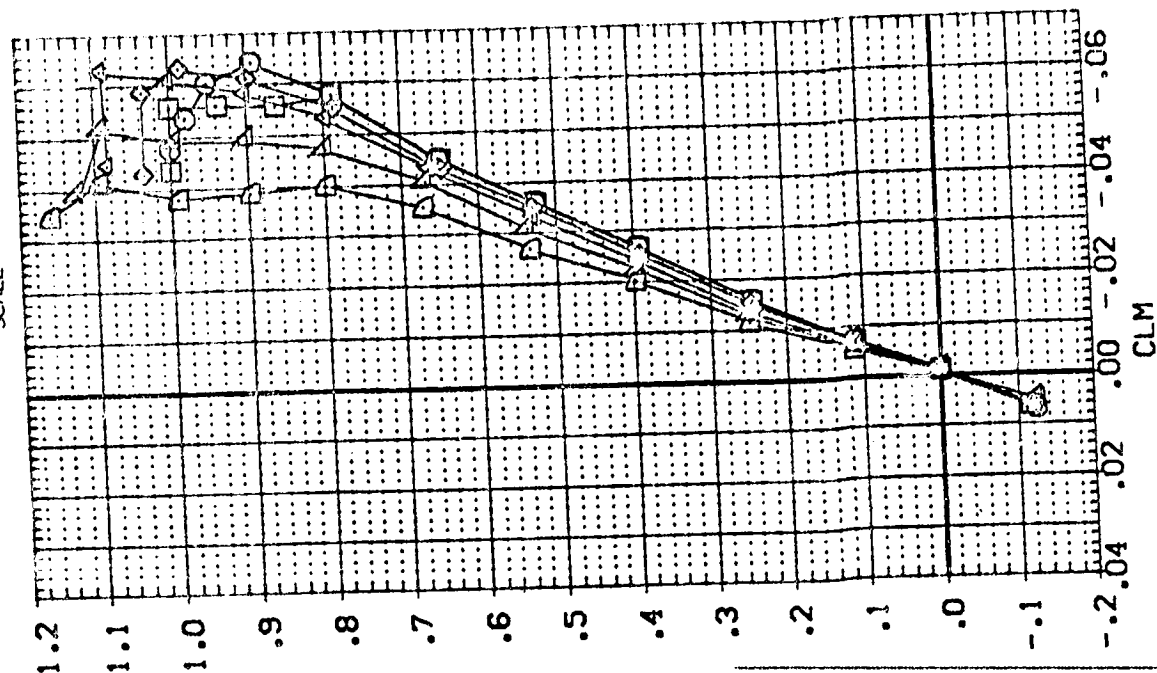
EFFECT OF FILLET ON LG-100 VING (B W1 V FB)

(C)MACH = .90

DATA SET SYMBOL
 [RPS001]
 [RPS002]
 [RPS003]
 [RPS004]
 [RPS005]
 [RPS006]

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 C8B1TER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LG-100 C8B1TER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LG-100 C8B1TER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LG-100 C8B1TER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LG-100 C8B1TER(SHIPS) (BVLVFB)
 LARC 8-FT TPT 644 LG-100 C8B1TER(SHIPS) (BVLVFB)

REFERENCE INFORMATION
 SCALE 0.0188
 ZREF 0.000
 YREF 0.000
 XREF 0.000
 LREF 0.000
 SREF 0.000
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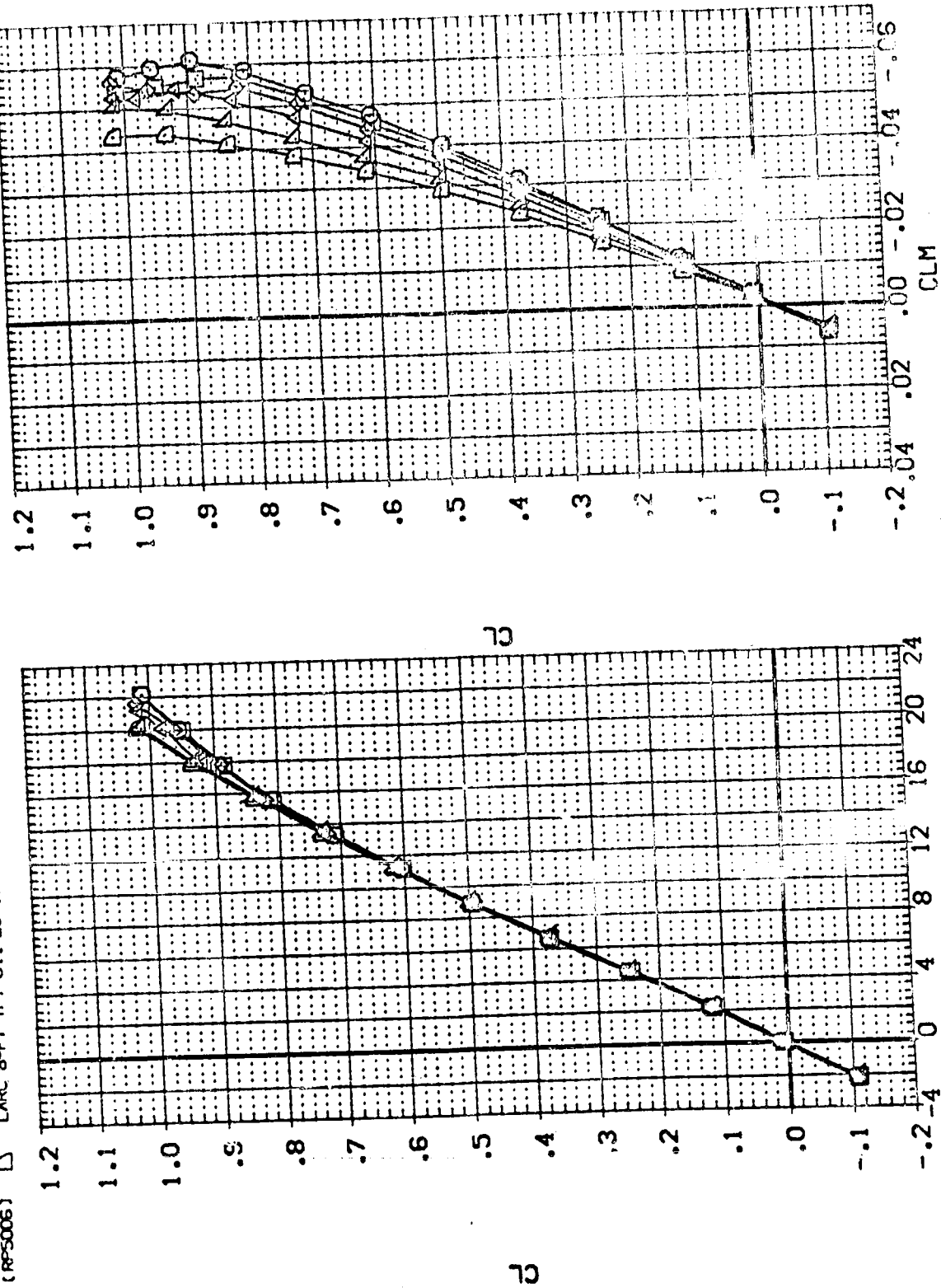


EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(O)MACH = .98



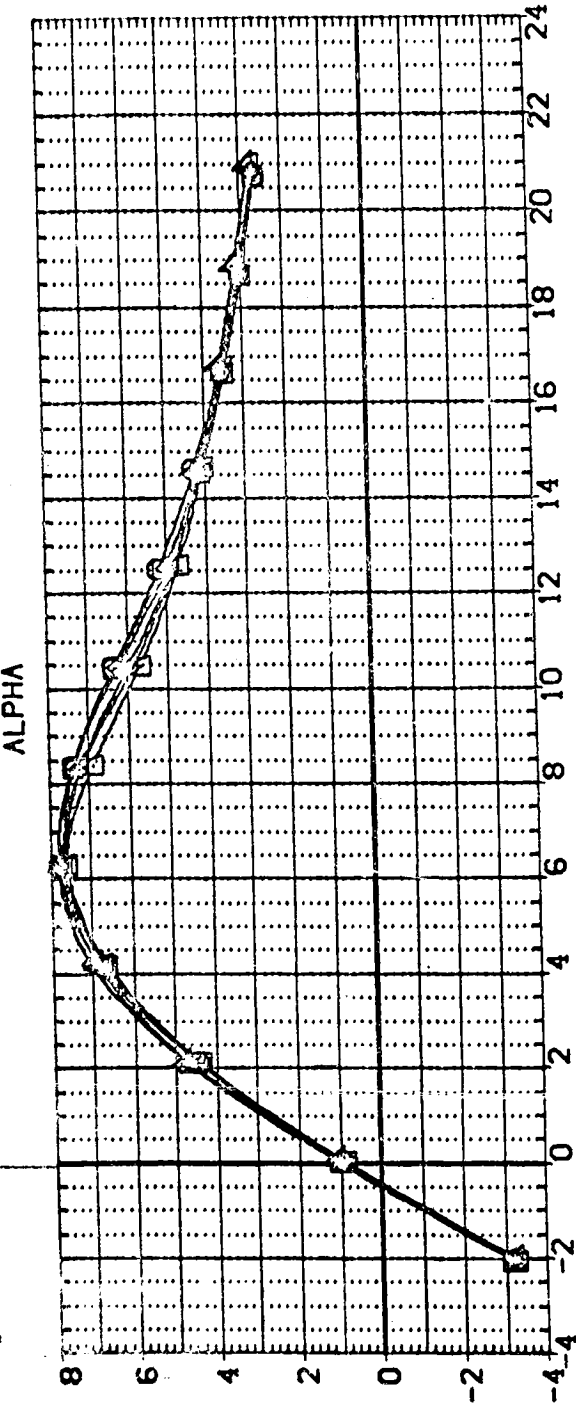
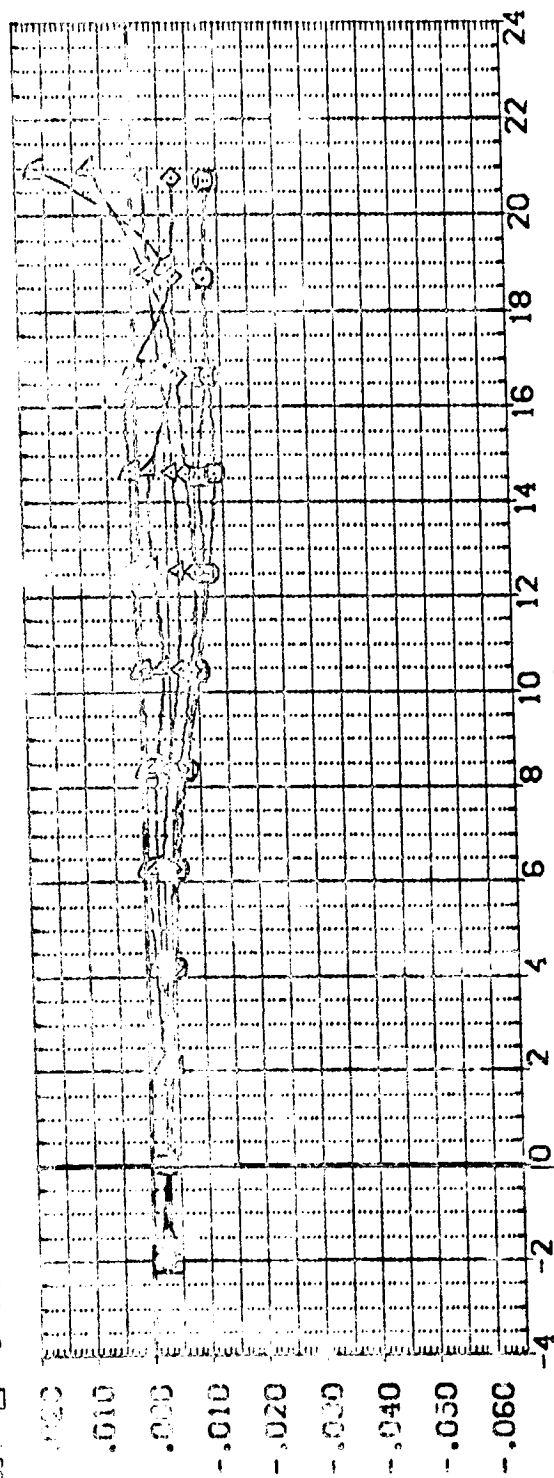
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	SREF 175.7376 SQ. IN.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	XMRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	YMRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	ZMRP .0000 INCHES
		SCALE .0188
		SCALE



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(E)MACH = 1.20

DATA SET SYMBOL	DESCRIPTION	WING	REF. INCLINATION	SCALE
000001	LARC 8-PT 844 LO-100 CRBITER(SHIPS) (BVIVFB)	53.200	175.7275	50.175
000002	LARC 8-PT 844 LO-100 CRBITER(SHIPS) (BVIVFB)	60.000	175.7275	50.175
000003	LARC 8-PT 844 LO-100 CRBITER(SHIPS) (BVIVFB)	65.000	175.7275	50.175
000004	LARC 8-PT 844 LO-100 CRBITER(SHIPS) (BVIVFB)	70.000	175.7275	50.175
000005	LARC 8-PT 844 LO-100 CRBITER(SHIPS) (BVIVFB)	75.000	175.7275	50.175
000006	LARC 8-PT 844 LO-100 CRBITER(SHIPS) (BVIVFB)	78.000	175.7275	50.175

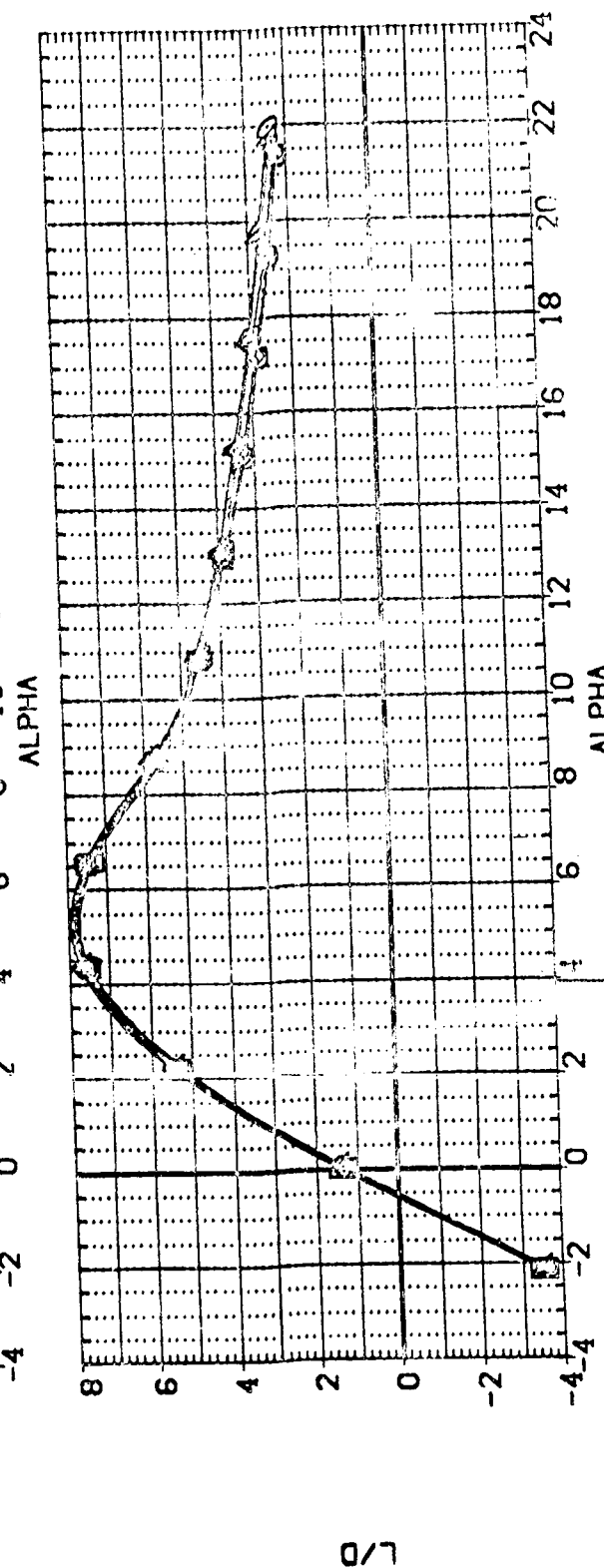
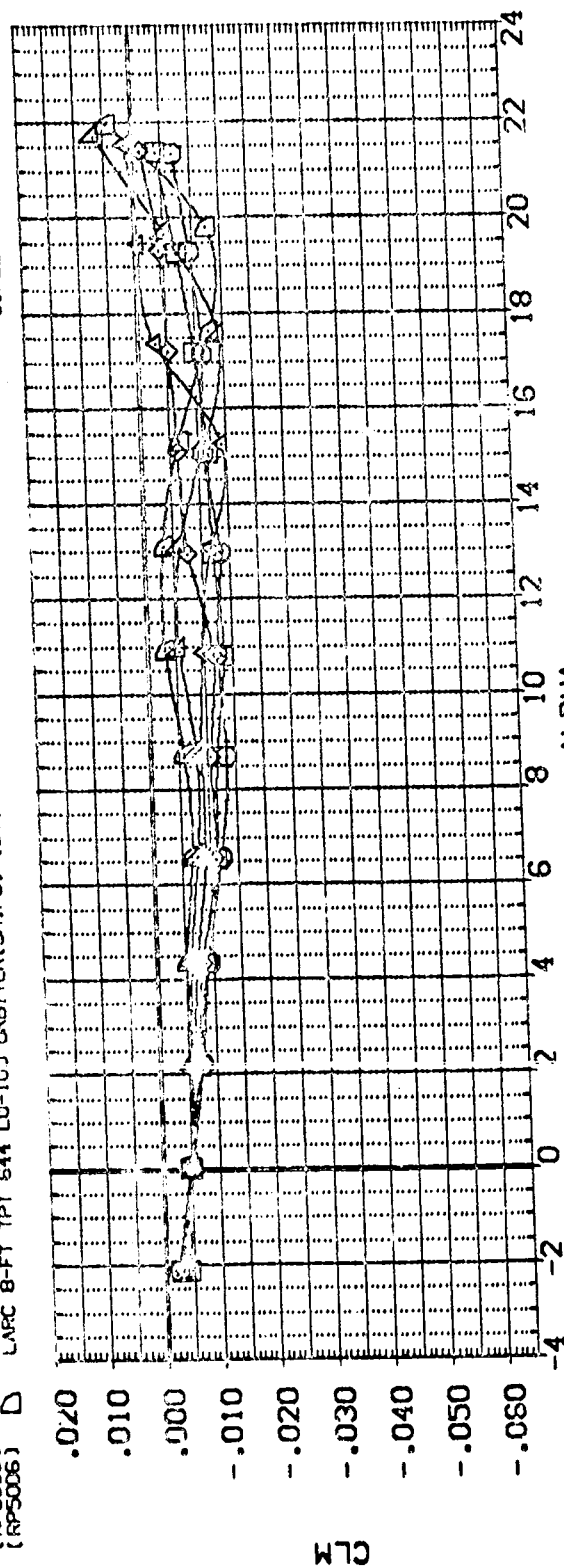


EFFECT OF FILLET ON LO-100 WING (B W I V FB)

(A)MACH = .35



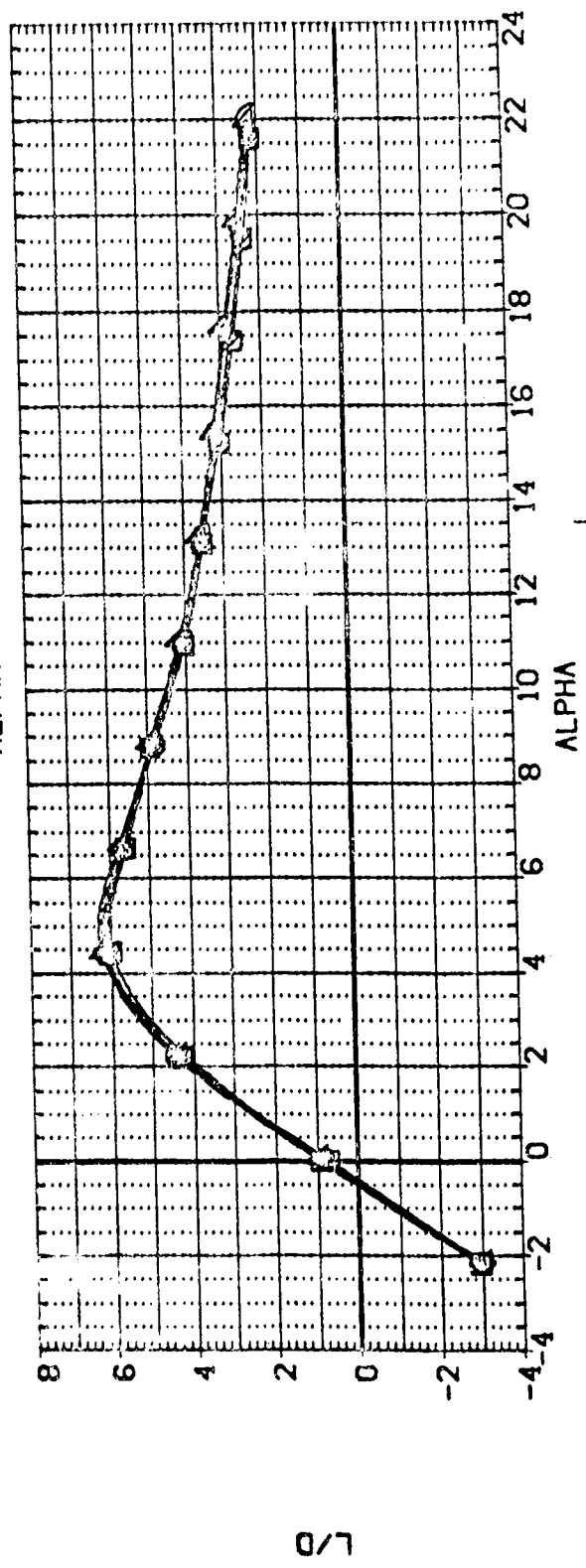
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAWAF	VINGW	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	53.200	1.000	.000	.000	SREF 175.2376 SQ.IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	70.000	1.000	.000	.000	YREF 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	75.000	1.000	.000	.000	ZREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BW1VFB)	78.000	1.000	.000	.000	SCALE .0183



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(B)MACH = .80

DATA SET SYMBOL



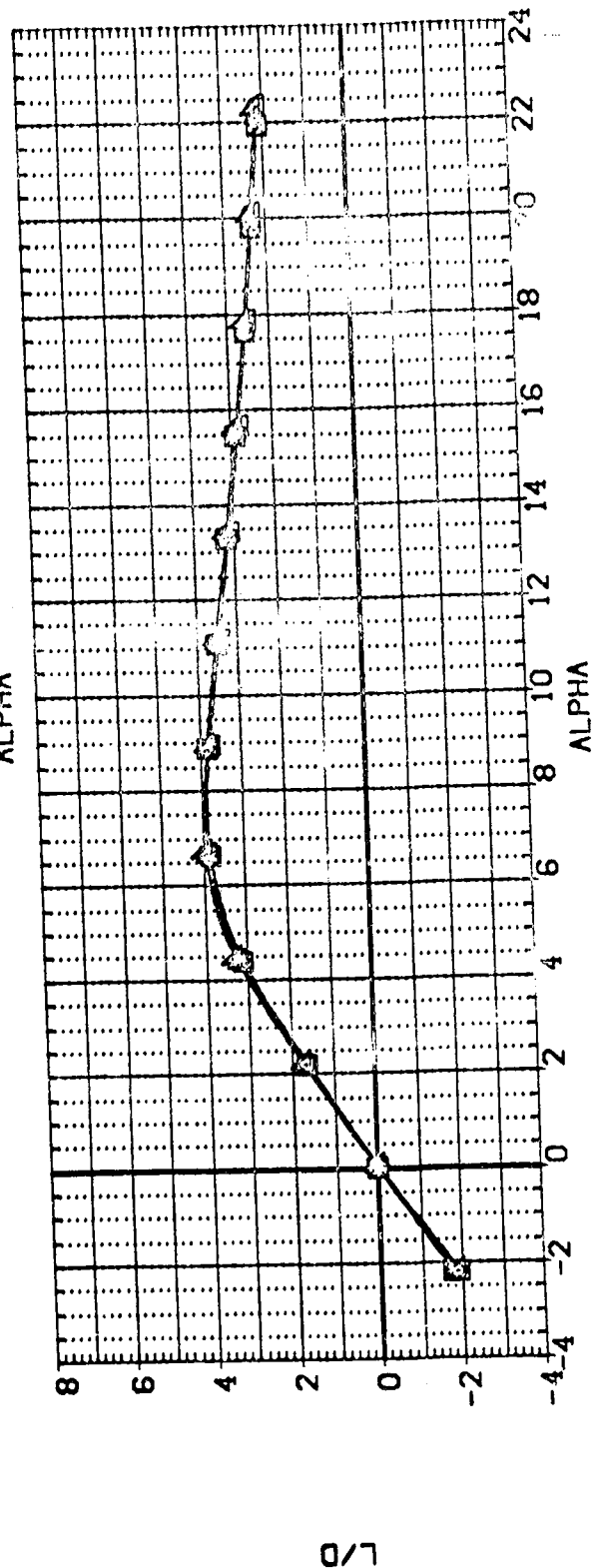
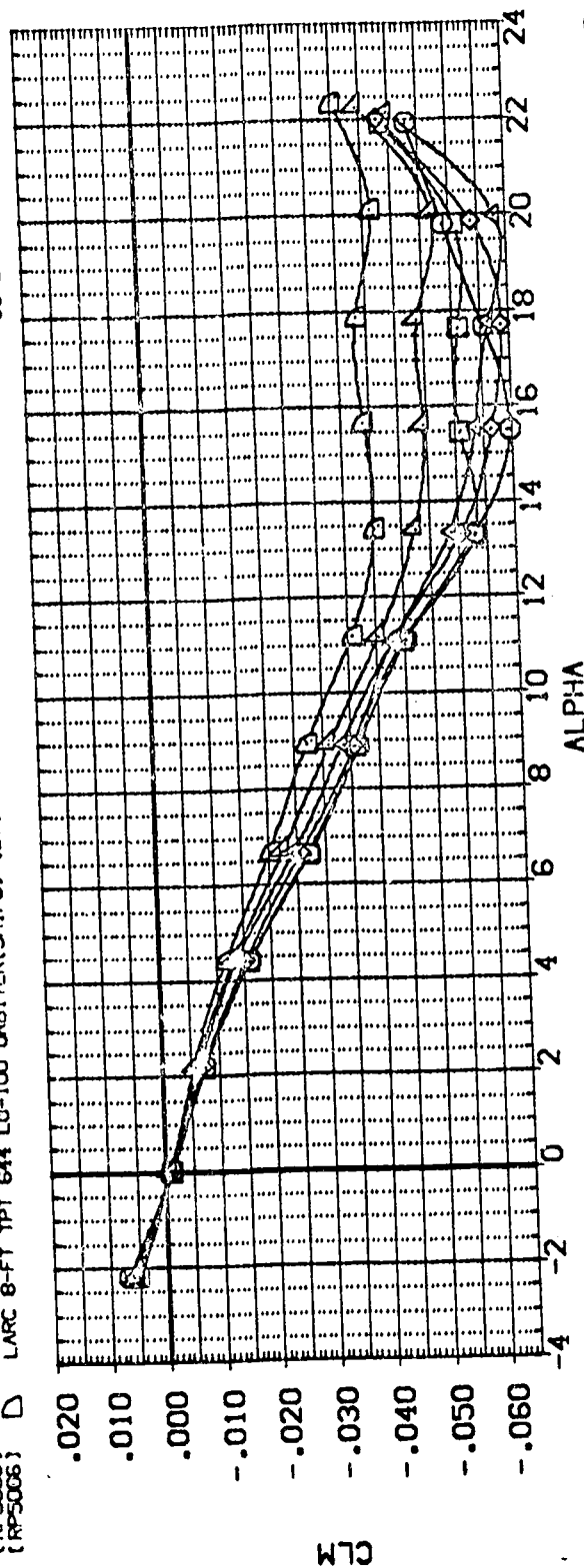
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(C)MACH = .90

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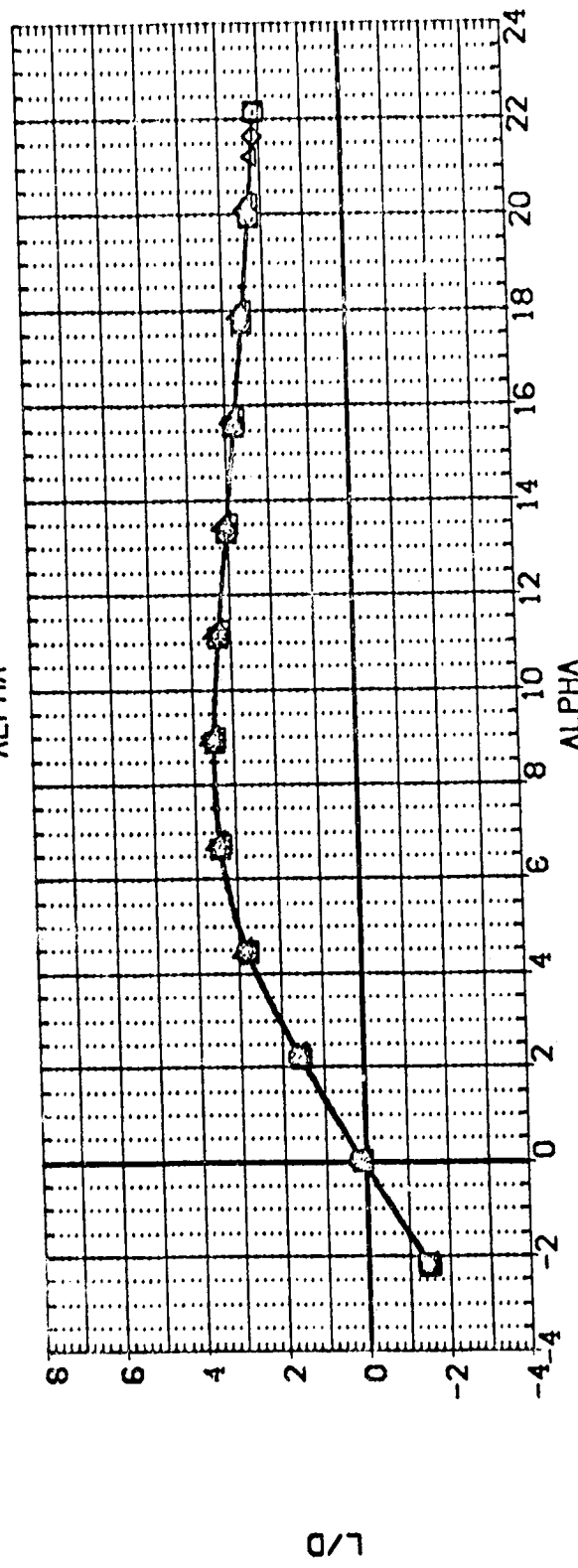
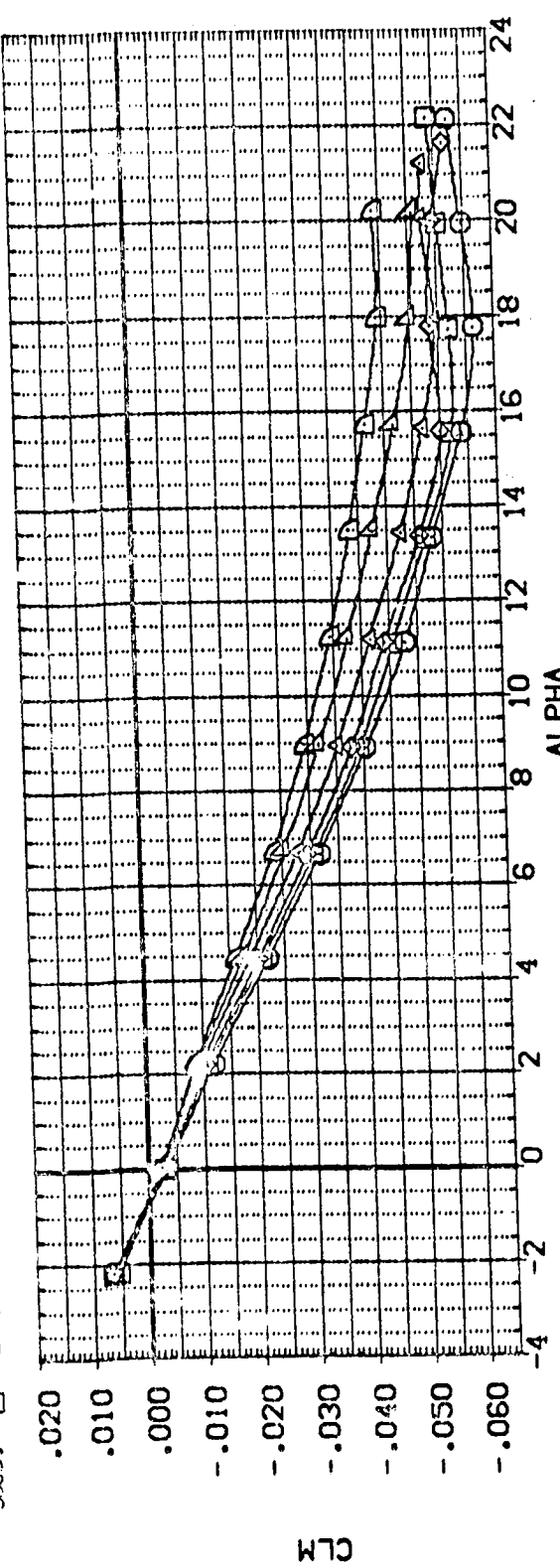
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 50.1N.
(RP5002)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XREF 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZREF .0188 SCALE



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(D)MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RPS001)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7375
(RPS002)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100
(RPS003)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156
(RPS004)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XREF 16.8633
(RPS005)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YREF .0000
(RPS006)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZREF .0000
						SCALE .0188

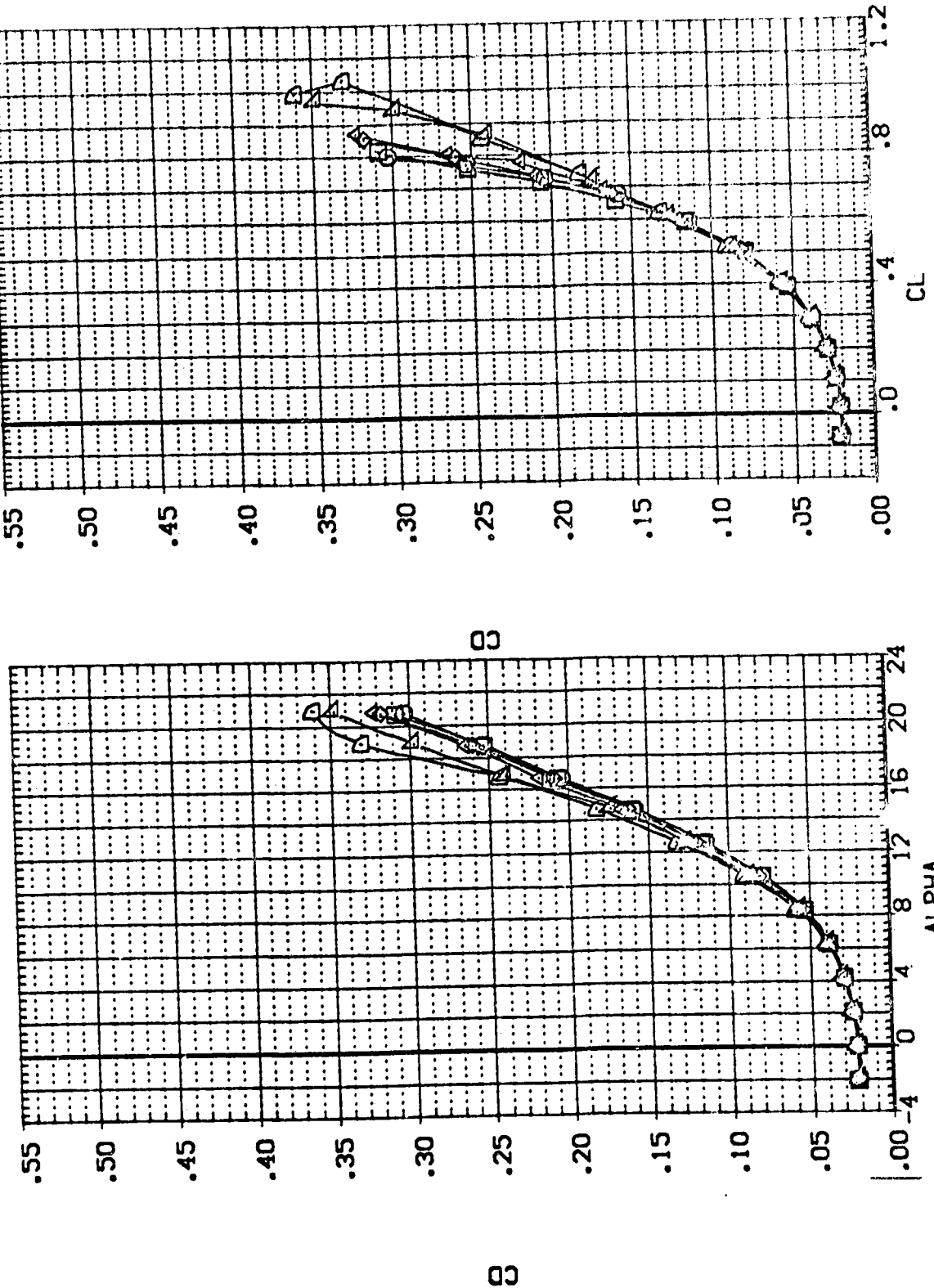


EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

(E)MACH = 1.20



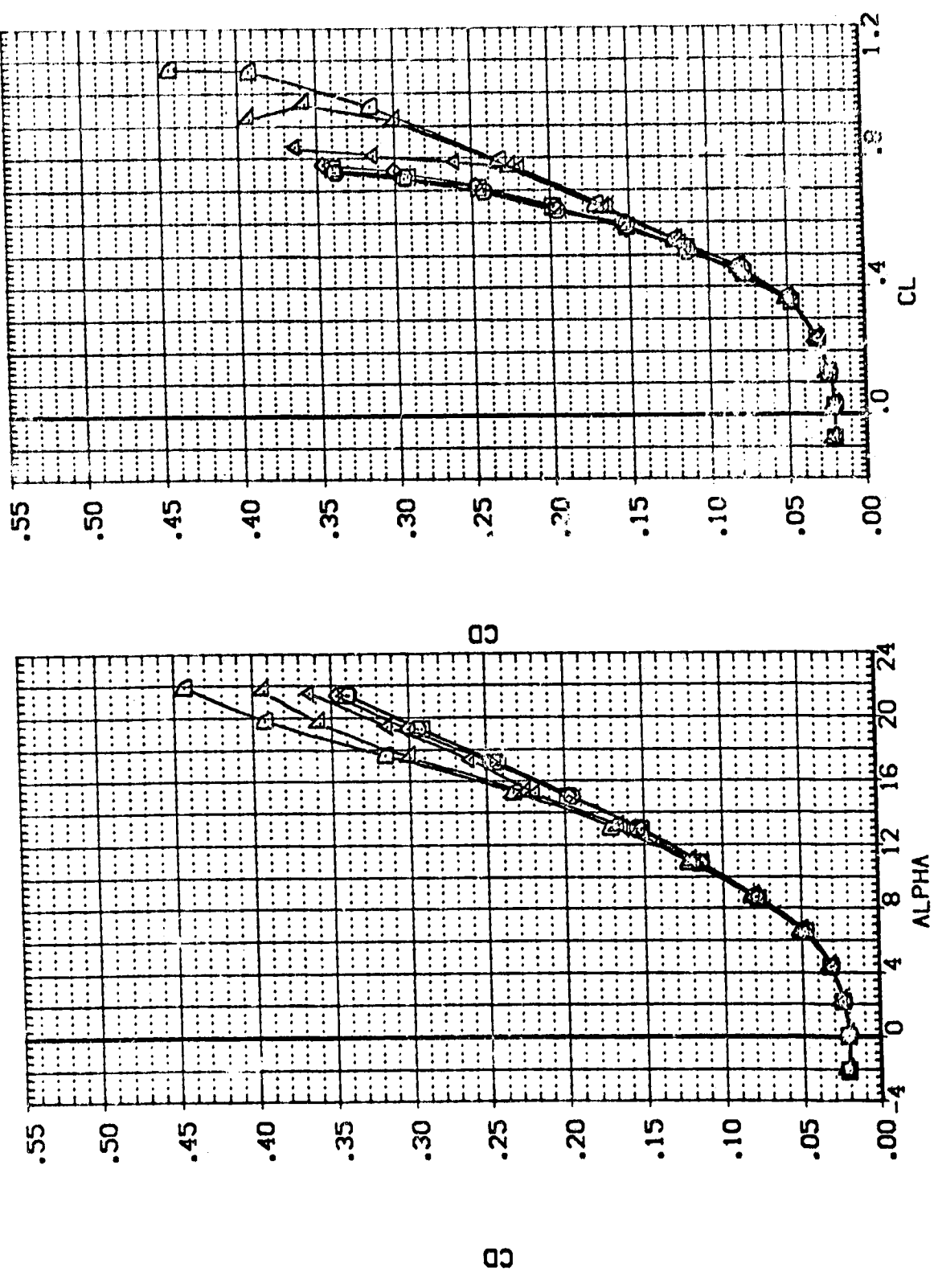
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGND	ROFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7376 SQ.IN.
(RP5002)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XC2P 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YCRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LG-100 CRB TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZCRP .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LG-100 WING (B W1 V FB)

CAMMACH = .35

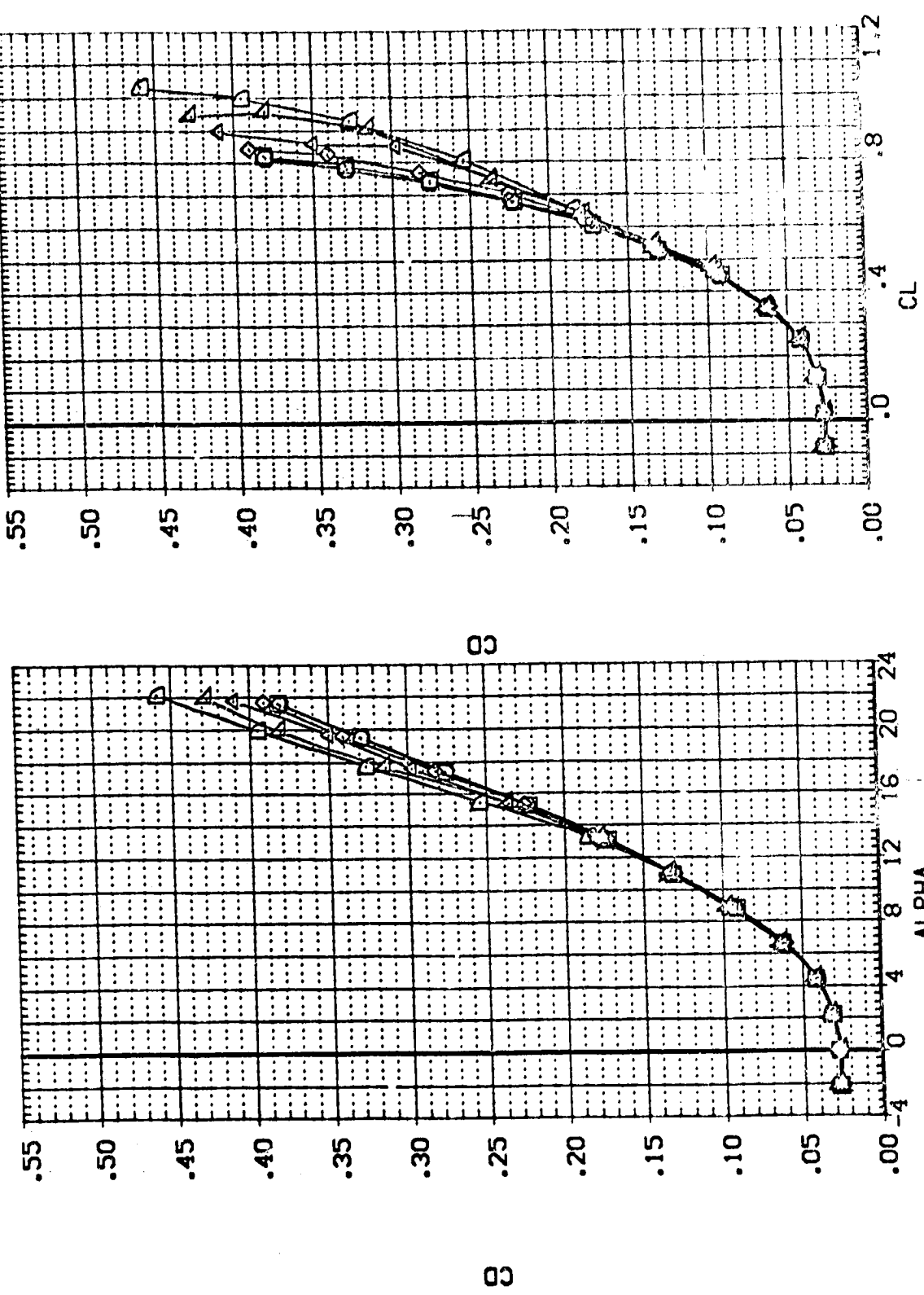
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LARC	8-FT TPT	644	LO-100	Q881TER(SHIPS)	(BV1VFB)	LAPDAP	WINGNO	RUDFLR	SOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 Q881TER(SHIPS)	(BV1VFB)	53.200									SREF 175.7376
(RP5002)	LARC 8-FT TPT 644 LO-100 Q881TER(SHIPS)	(BV1VFB)	50.000									LREF 25.5100
(RP5003)	LARC 8-FT TPT 644 LO-100 Q881TER(SHIPS)	(BV1VFB)	65.000									BREF 19.7156
(RP5004)	LARC 8-FT TPT 644 LO-100 Q881TER(SHIPS)	(BV1VFB)	70.000									XREF 16.8633
(RP5005)	LARC 8-FT TPT 644 LO-100 Q881TER(SHIPS)	(BV1VFB)	75.000									YREF .0000
(RP5006)	LARC 8-FT TPT 644 LO-100 Q881TER(SHIPS)	(BV1VFB)	78.000									ZREF .0000
												SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)
(B)MACH = .80



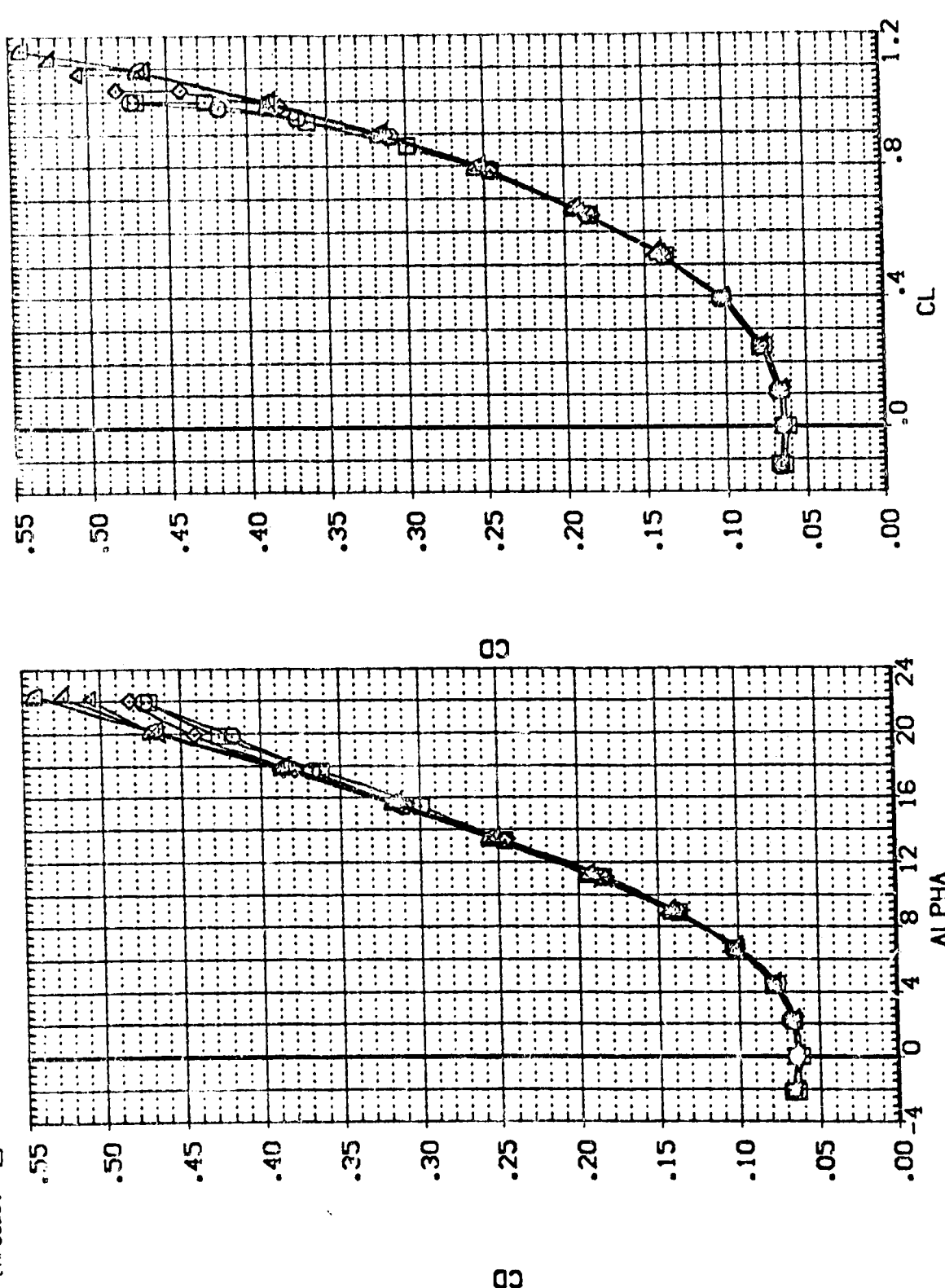
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7375 50.1N.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XREF 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YREF .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZREF .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(C)MACH = .90

DATA SET 51501	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RODCLR	BOELAP	REFERENCE INFORMATION
(RPS001)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7506 SQ.IN.
(RPS002)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VFB)	50.000	1.000	.000	.000	LREF 25.5100 INCHES
(RPS003)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 18.7156 INCHES
(RPS004)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XGRP 16.0000 INCHES
(RPS005)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YGRP .0000 INCHES
(RPS006)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZGRP .0000 INCHES
						SCALE .0188

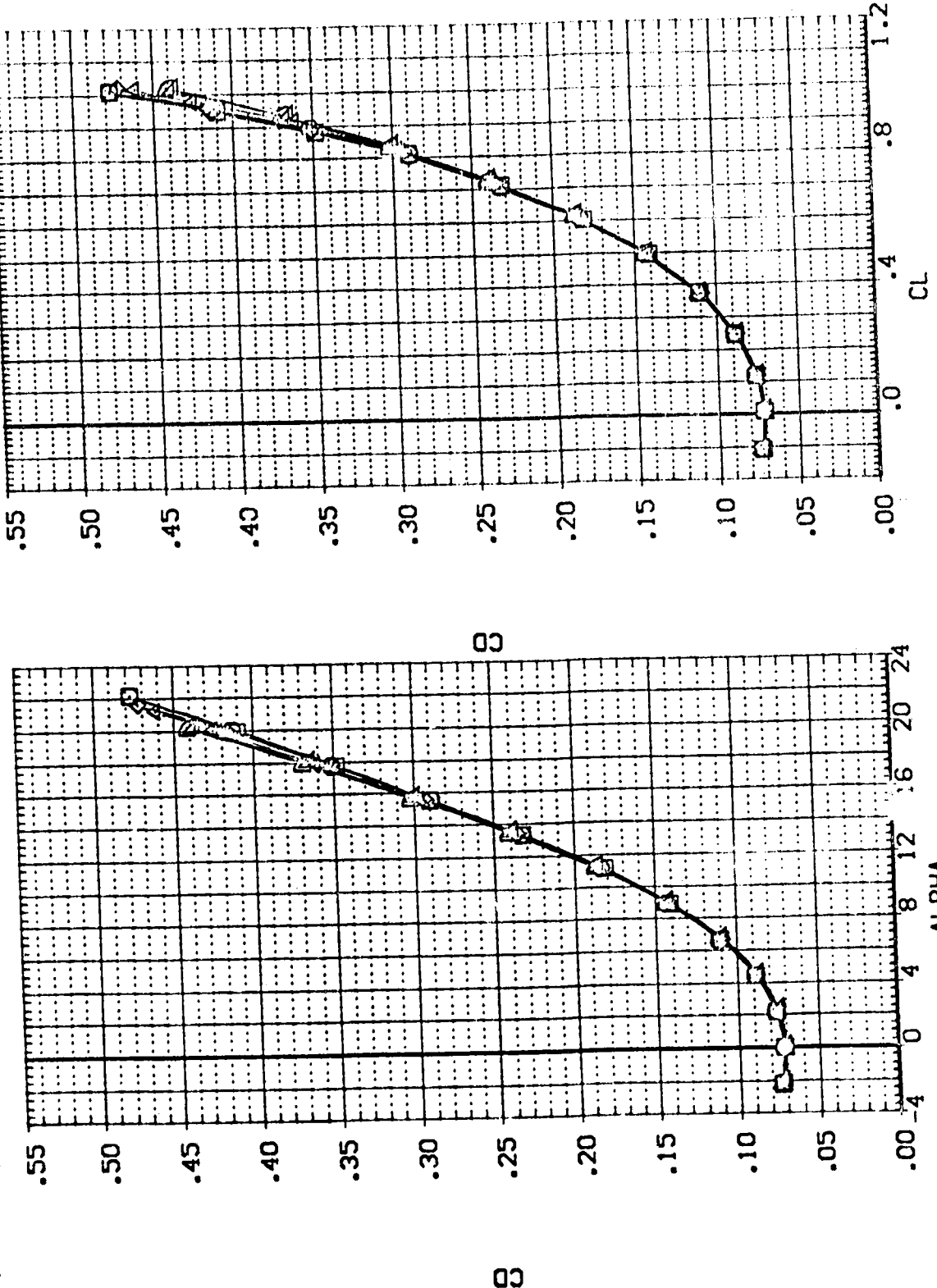


EFFECT OF FILLET ON L0-100 WING (B W1 V FB)

(D)MACH = .98



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000	SREF 175.7375 SQ.IN.
(RP5002)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	60.000	1.000	.000	.000	LREF 25.5100 INCHES
(RP5003)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	65.000	1.000	.000	.000	BREF 19.7156 INCHES
(RP5004)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	70.000	1.000	.000	.000	XMRP 16.8633 INCHES
(RP5005)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	75.000	1.000	.000	.000	YMRP .0000 INCHES
(RP5006)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	78.000	1.000	.000	.000	ZMRP .0000 INCHES
						SCALE .0188

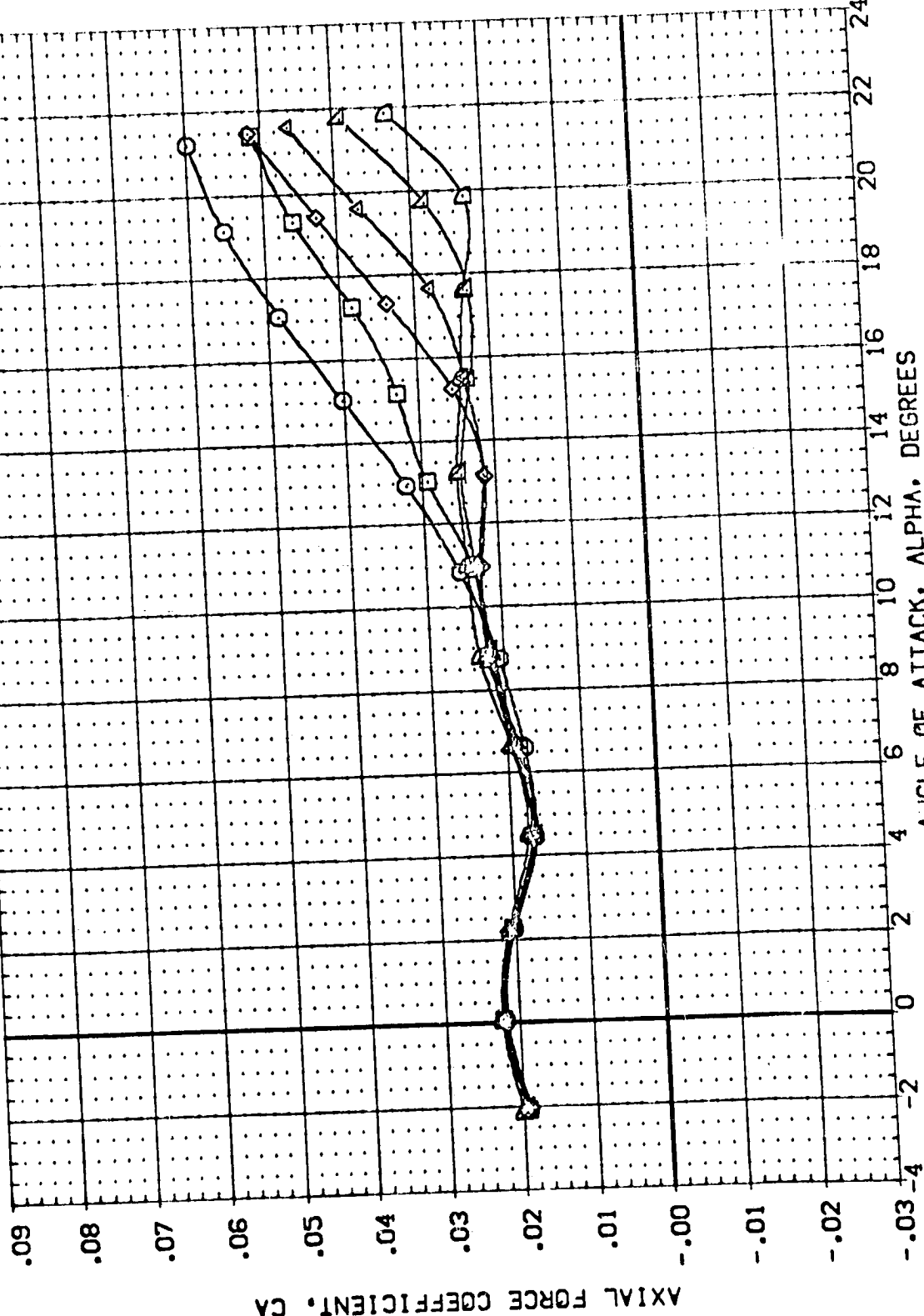


EFFECT OF FILLET ON LO-100 WING (B W1 V FB)

(E)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	45.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(RP5009)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	50.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	55.000	2.000	.000	.000	BREF 20.3597 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XREF 15.8633 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YREF .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZREF .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

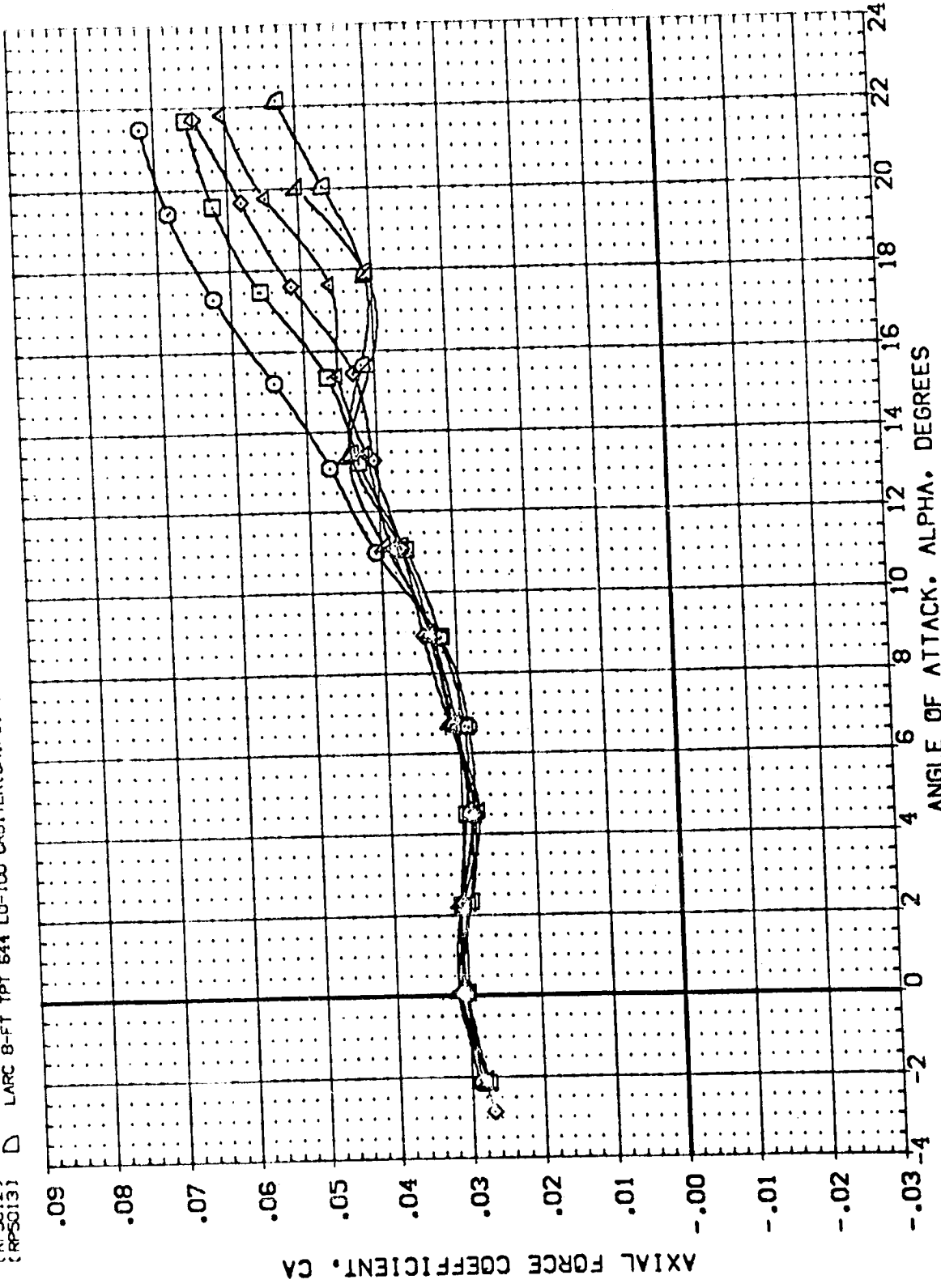
(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RP5007)	LARC 8-FT TPT 644	LO-100 CRB11TER(SHIPS)	(BV2VFB)
(RP5009)	LARC 8-FT TPT 644	LO-100 CRB11TER(SHIPS)	(BV2VFB)
(RP5010)	LARC 8-FT TPT 644	LO-100 CRB11TER(SHIPS)	(BV2VFB)
(RP5011)	LARC 8-FT TPT 644	LO-100 CRB11TER(SHIPS)	(BV2VFB)
(RP5012)	LARC 8-FT TPT 644	LO-100 CRB11TER(SHIPS)	(BV2VFB)
(RP5013)	LARC 8-FT TPT 644	LO-100 CRB11TER(SHIPS)	(BV2VFB)

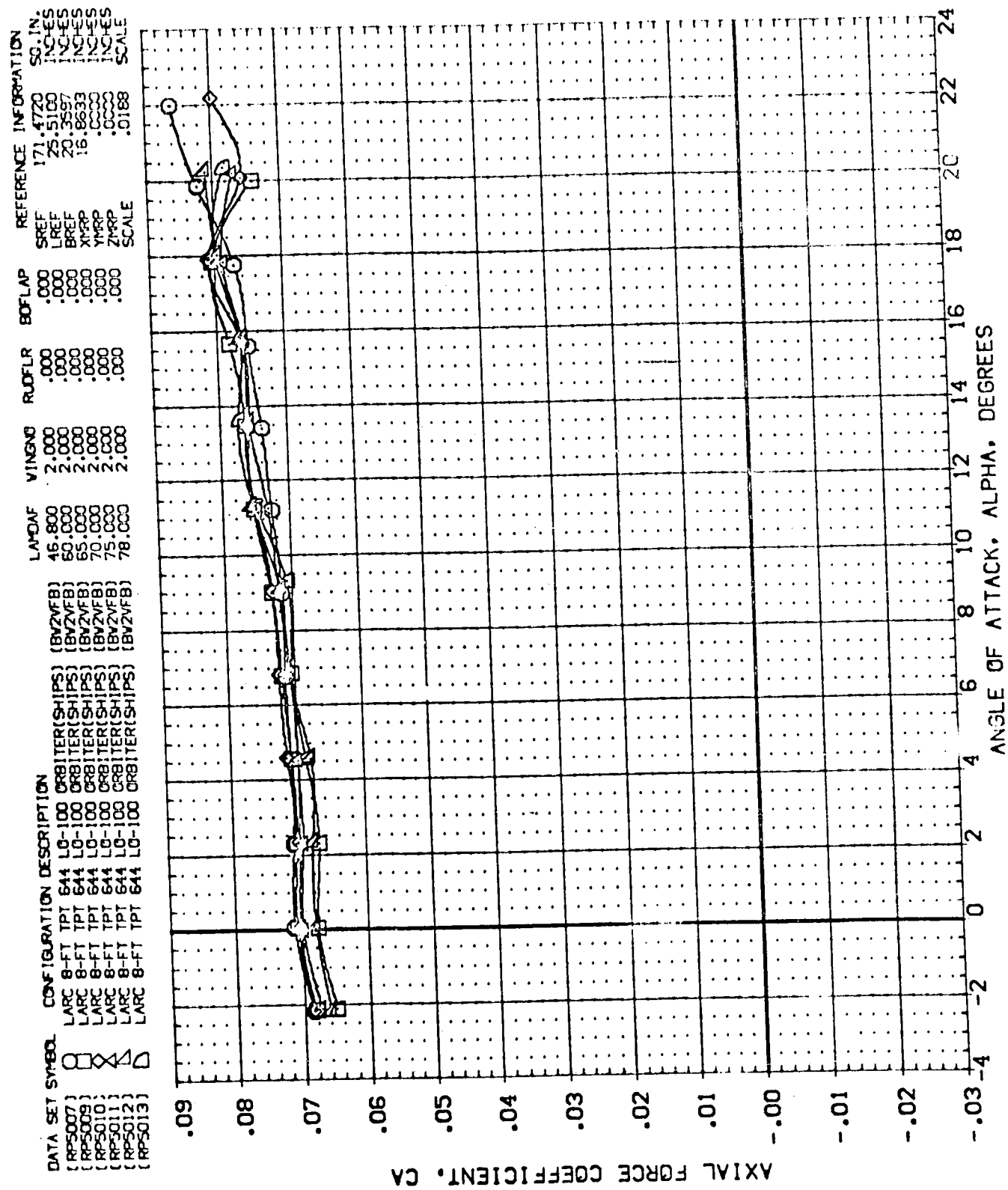
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BREF	20.3557		
YMRP	16.8633		
ZMRP	0.0000		
BOFLAP	0.000		
ROFLR	0.000		
VINGND	2.000		
LANDAF	46.800		



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(C)MACH = .90



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(DJMACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAYDAF	VINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS)	45.800	2.000	.000	.000	SREF 171.4720
(RP5008)	LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS)	50.000	2.000	.000	.000	LREF 25.5100
(RP5009)	LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS)	55.000	2.000	.000	.000	BREF 20.3597
(RP5010)	LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS)	60.000	2.000	.000	.000	YMRP 16.8633
(RP5011)	LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS)	65.000	2.000	.000	.000	YMRP .0000
(RP5012)	LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS)	70.000	2.000	.000	.000	ZMRP .0000
(RP5013)	LARC 8-FT TPT 644 LC-100 CRB1TER(SHIPS)	75.000	2.000	.000	.000	SCALE .0188

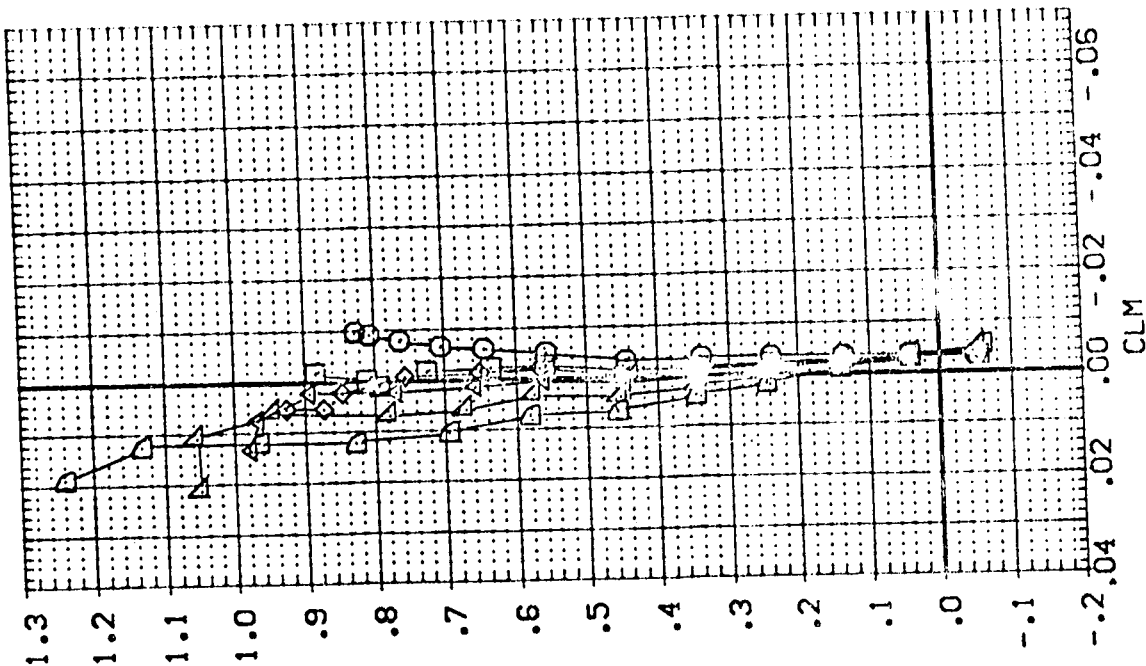
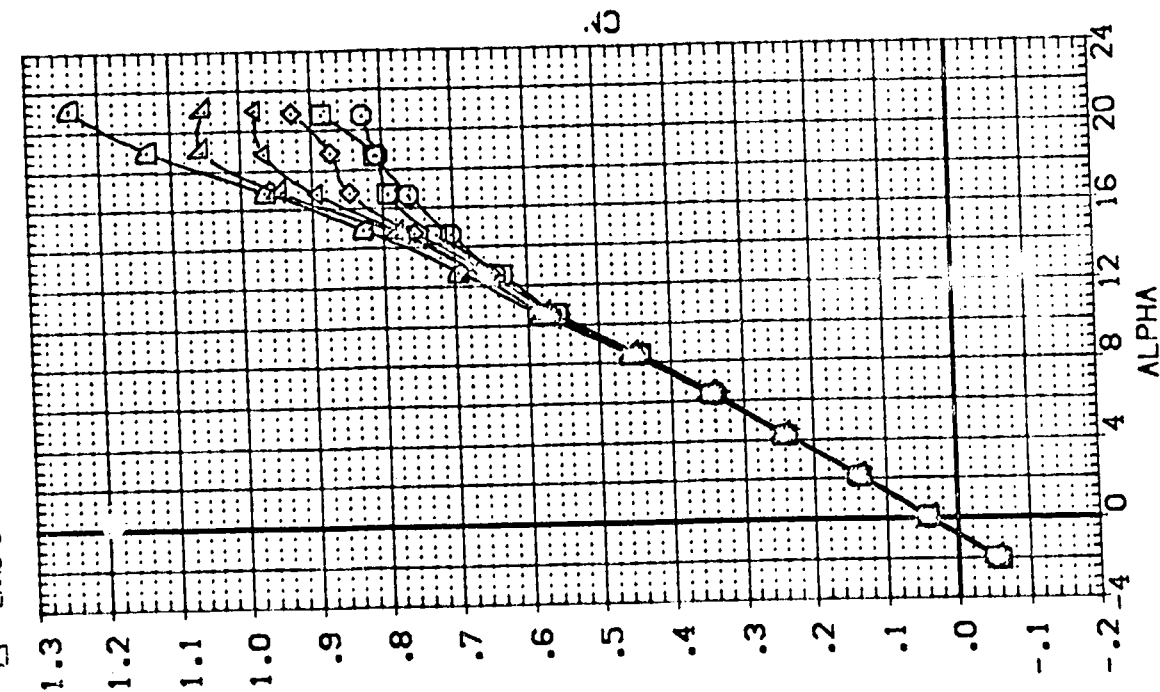


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(E)MACH = 1.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RUFLR	BOFLAP	REFERENCE INFORMATION	SO, IN.
[RP5007]	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720	INCHES
[RP5009]	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100	INCHES
[RP5010]	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 20.3597	INCHES
[RP5011]	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XMRP 16.8633	INCHES
[RP5012]	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YMRP .0000	INCHES
[RP5013]	LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZMRP .0188	SCALE

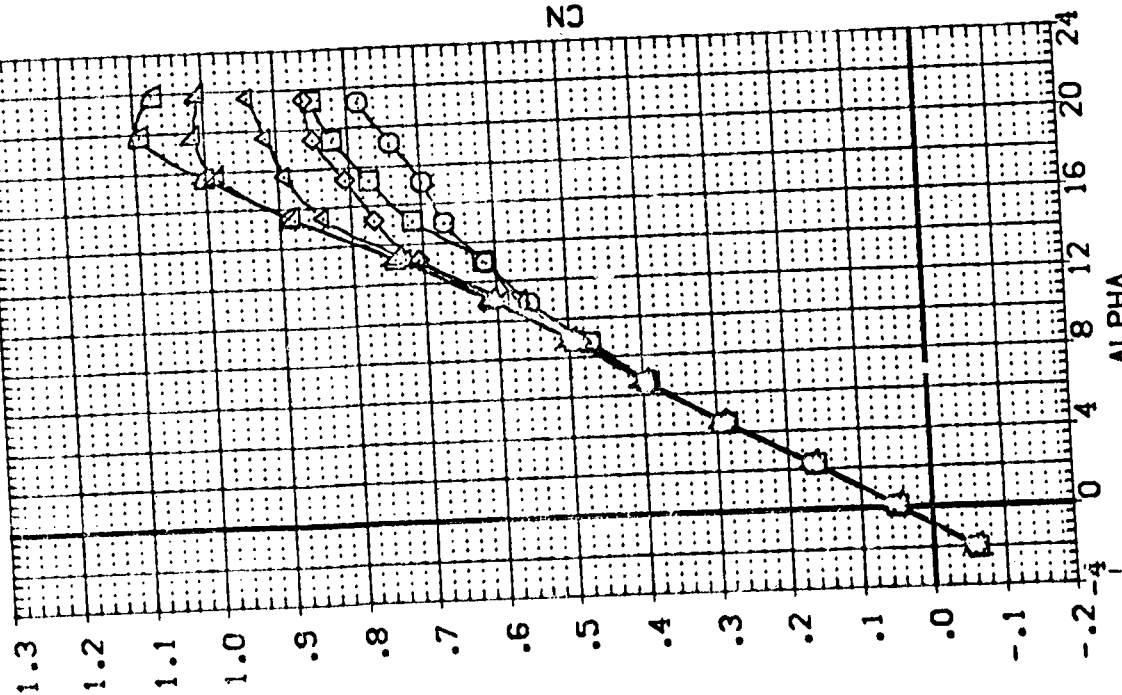


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(M)MACH = .35

DATA SET SYMBOL
 (RP5007)
 (RP5009)
 (RP5010)
 (RP5011)
 (RP5012)
 (RP5013)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)

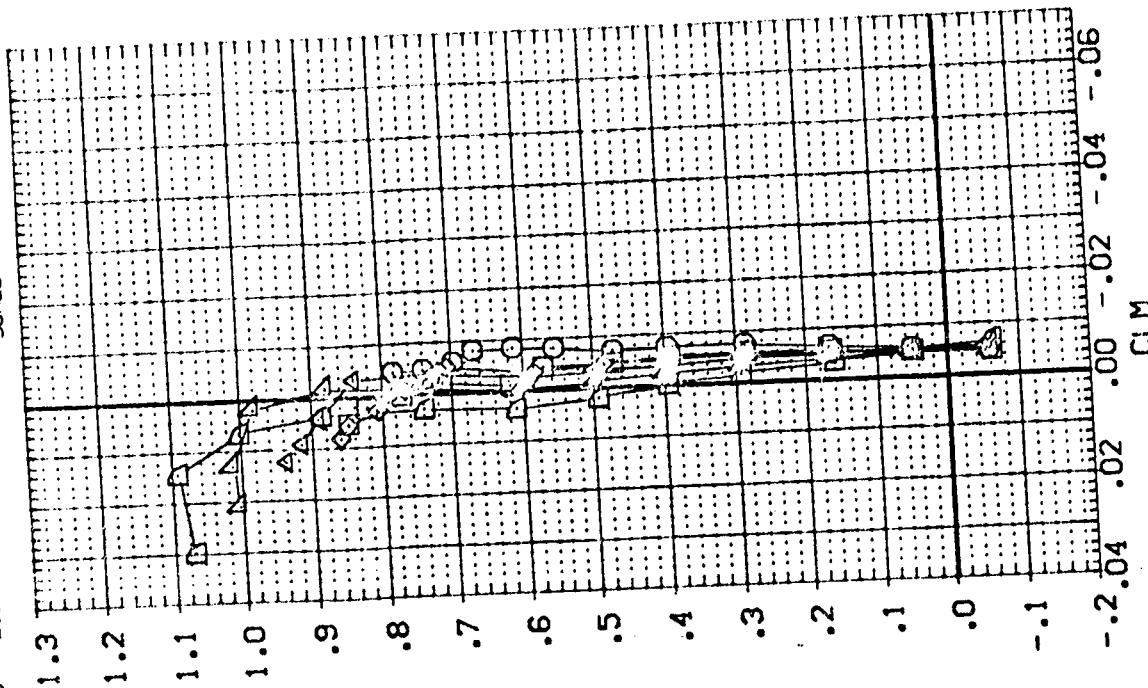


EFFECT OF FILLET ON W-33 WING (B W2 V FB)
 (B)MACH = .80

ALPHA

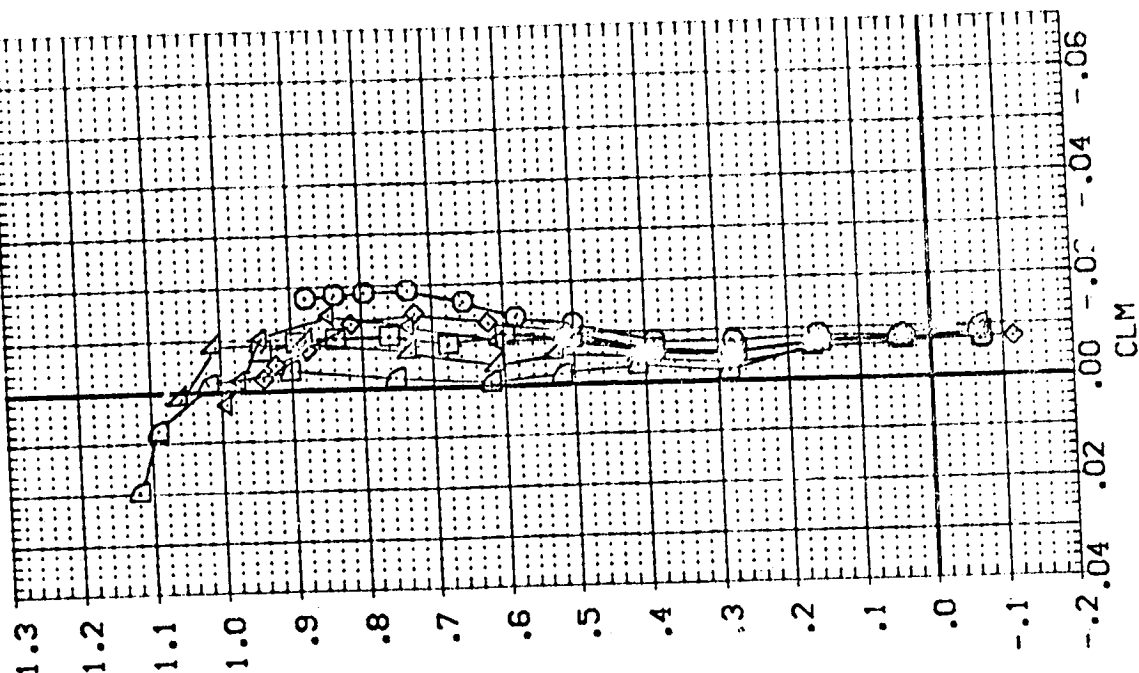
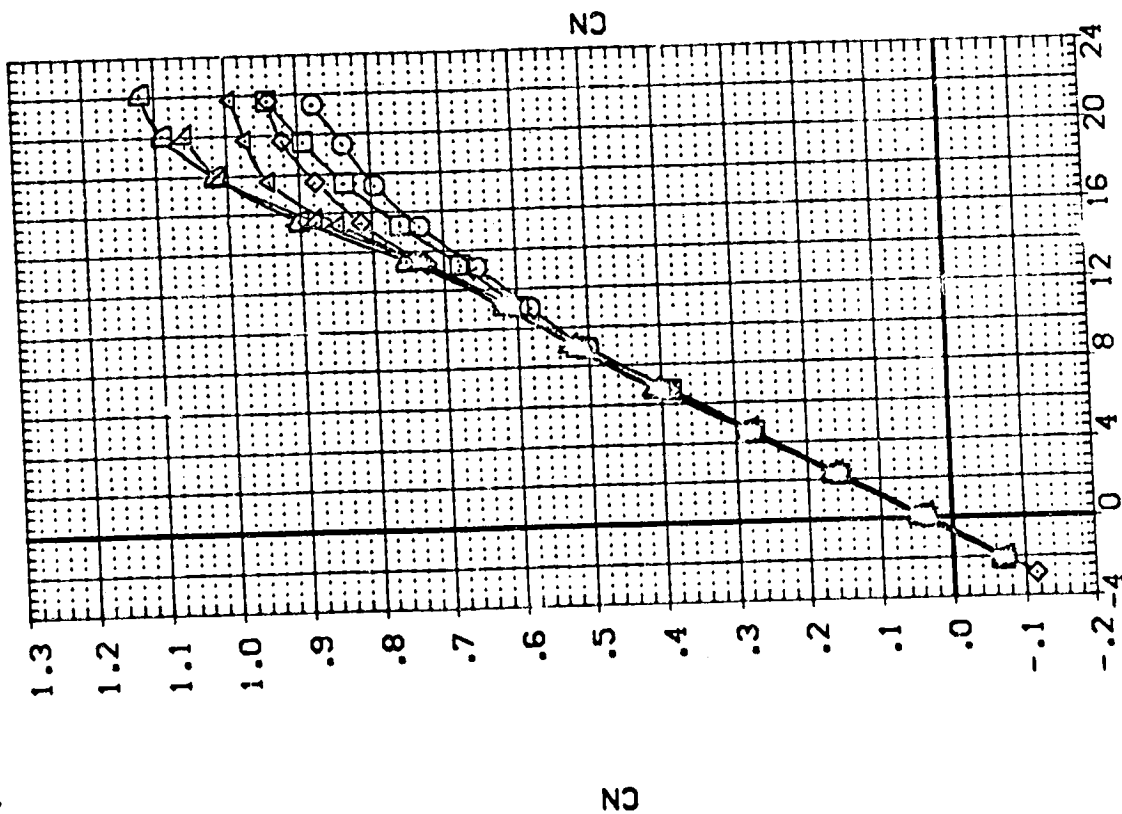
Z

LAOAF 45.800
 VINGNO 2.000
 RUOFLR .000
 BOFLAP .000
 SREF 171.4728
 LREF 25.5100
 BRFF 20.3597
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE 0.189





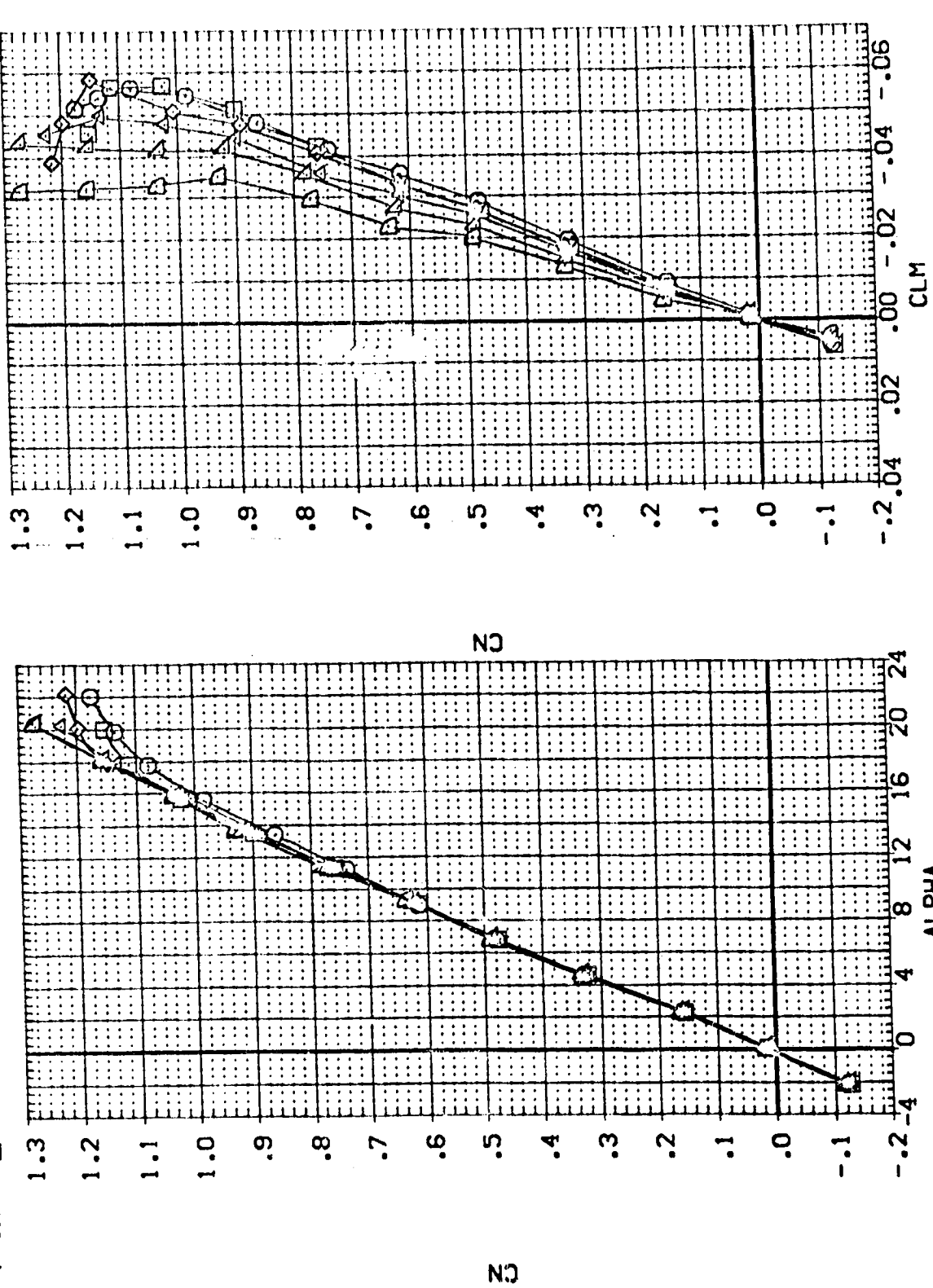
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	VINGAO	RUDFLR	BOFLAP	REFERENCE INFORMATION	SCALE
(RP5007)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720	INCHES
(RP5008)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	50.000	2.000	.000	.000	LREF 25.5100	INCHES
(RP5009)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 16.8633	INCHES
(RP5010)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XTRP .0000	INCHES
(RP5011)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YTRP .0000	INCHES
(RP5012)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZTRP .0000	INCHES
(RP5013)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)					SCALE .0188	SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(C)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)	SREF 171.4720 SC.IN.
(RPS009)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)	LREF 26.5100 NCES
(RPS010)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)	BREF 20.3597 NCES
(RPS011)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)	XREF 15.8533 NCES
(RPS012)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)	YREF 0.0000 NCES
(RPS013)	LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VFB)	ZREF 0.0000 NCES
		SCALE 0.189 SCALE

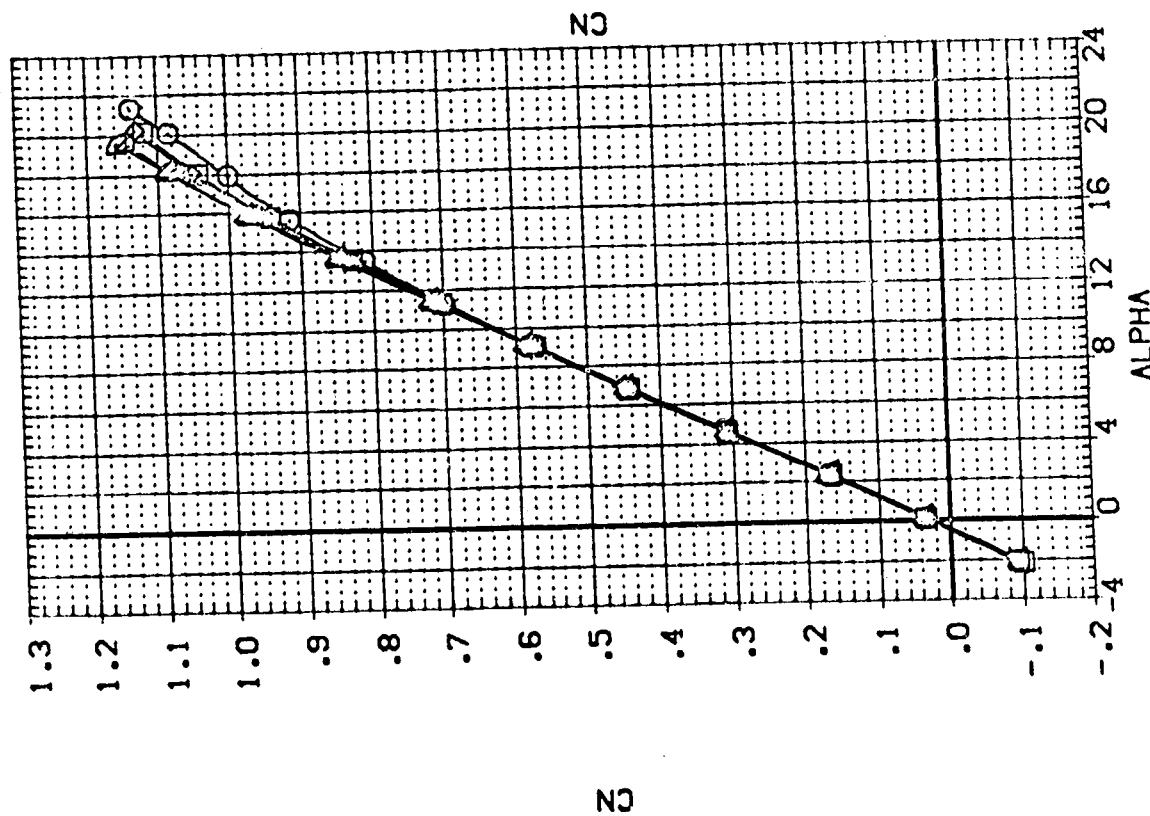
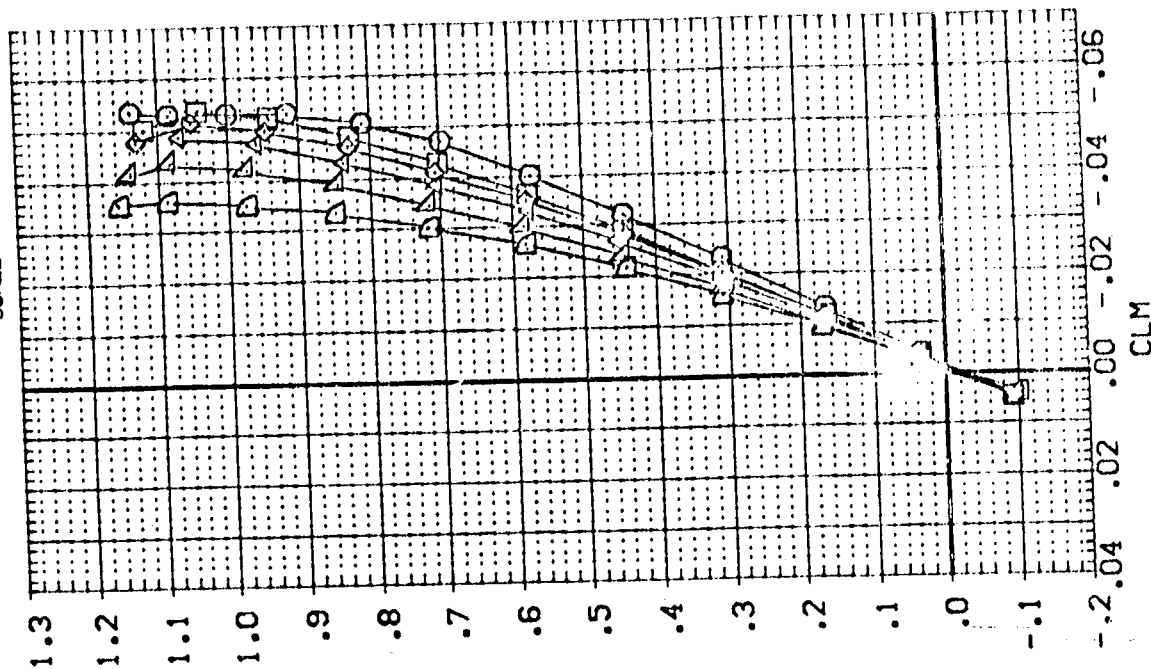


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(D)MACH = .98



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGW	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SC.IN.
(RP5009)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 22.3597 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XREF 16.8633 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YREF .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZREF .0188 INCHES
						SCALE

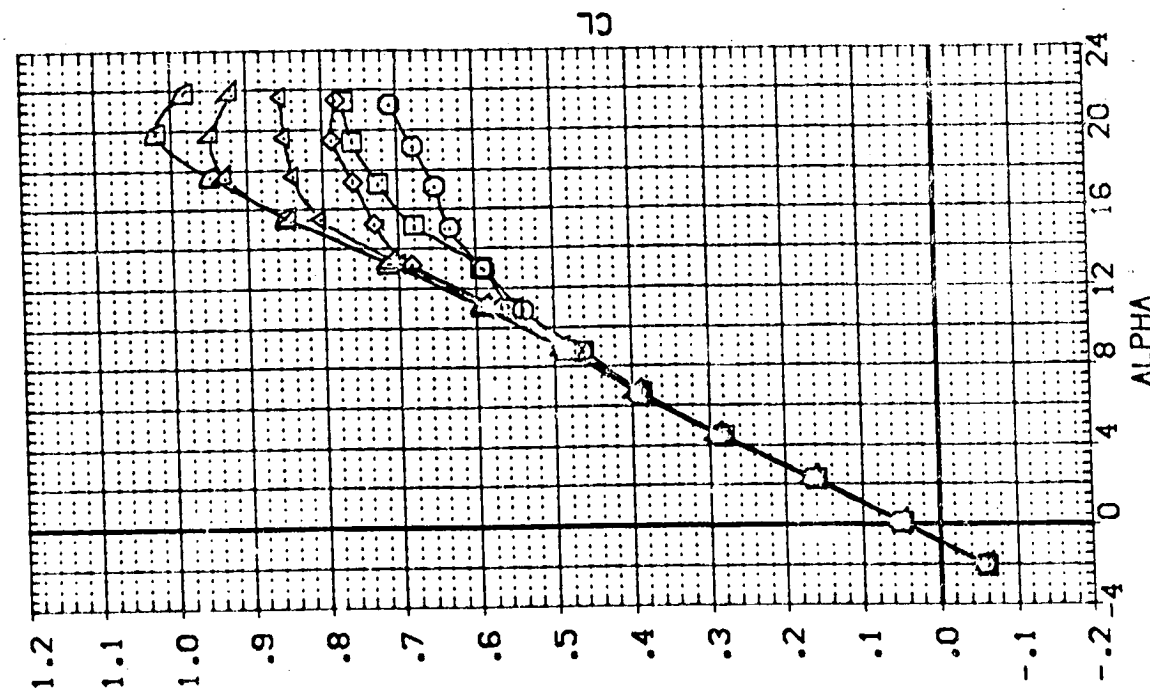
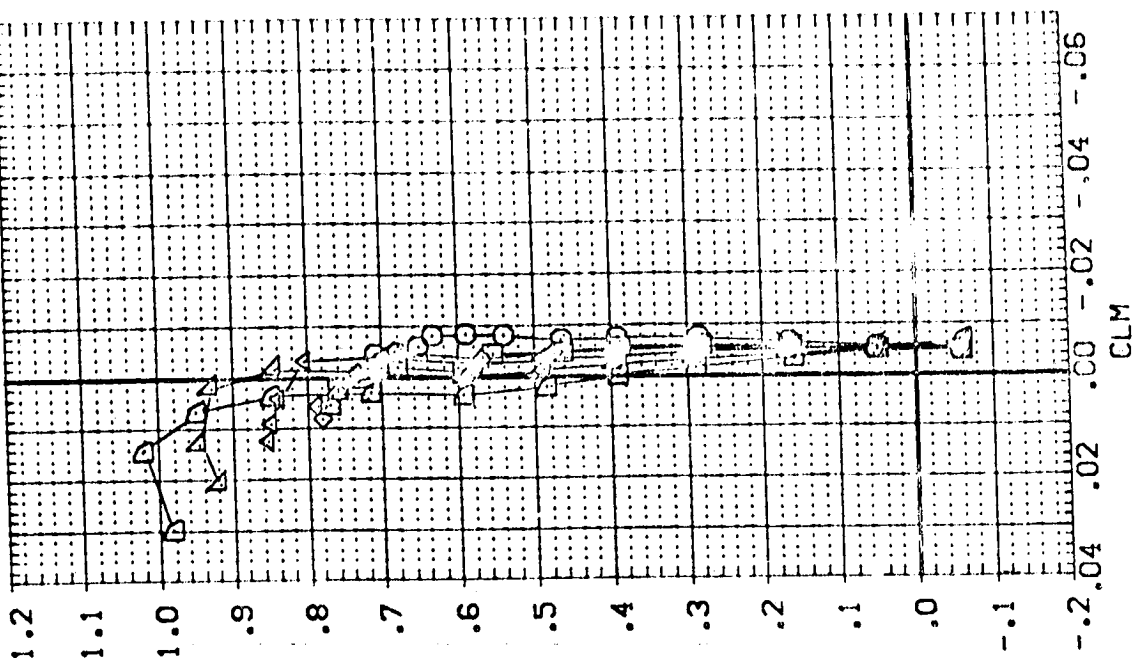


EFFECT OF FILLET ON W-33 WING (B W2 V FB)
(E)MACH = 1.20

The figure consists of two vertically stacked plots. Both plots have a y-axis labeled J ranging from -0.2 to 1.2 with major ticks every 0.1 units. The top plot has an x-axis labeled CLM ranging from -0.06 to 0.04 with major ticks every 0.02 units. The bottom plot has an x-axis labeled $ALPH$ ranging from -4 to 24 with major ticks every 4 units. Both plots feature a grid with major lines every 0.1 units on the y-axis and every 0.02 units on the x-axis for the top plot, and every 4 units on the x-axis for the bottom plot. Multiple data series are plotted in each graph, represented by different markers: open circles, open squares, open triangles, and open diamonds. In the top plot, the data series are clustered between $CLM = 0.00$ and $CLM = 0.02$, with J values ranging from approximately 0.0 to 1.2. In the bottom plot, the data series are clustered between $ALPH = 0$ and $ALPH = 16$, with J values ranging from approximately 0.0 to 1.2.

$$(A)_{MACH} = .35$$

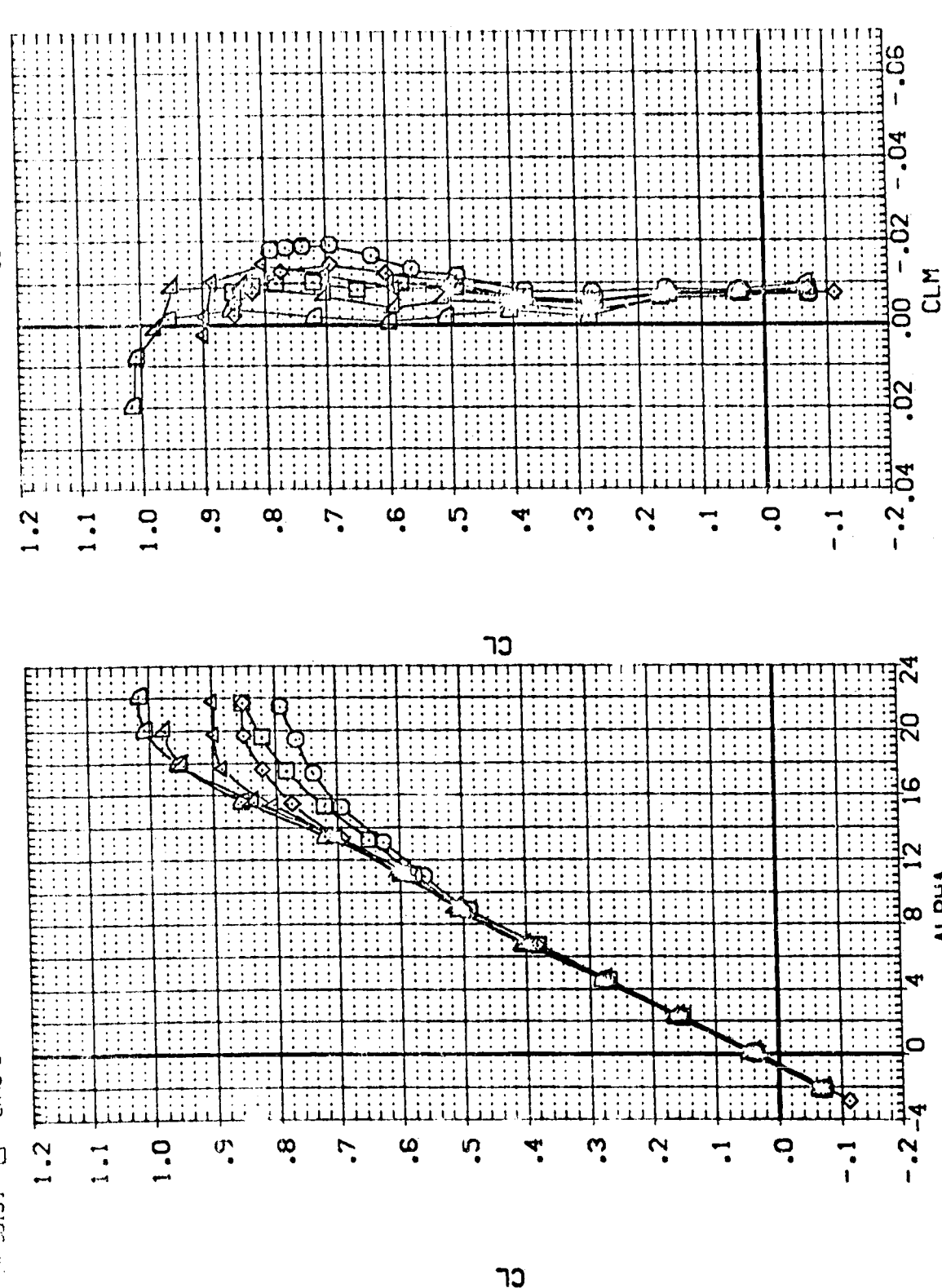
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGW	RUFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SC.IN.
(RP5009)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 NGES
(RP5010)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	63.000	2.000	.000	.000	BREF 23.5557 NGES
(RP5011)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XREF 16.8533 NGES
(RP5012)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YREF .0000 NGES
(RP5013)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZREF .0000 NGES
						SCALE .0188 SCALE



EFFECT OF FILLET ON W-33 WING (B #2 V FB)

(B)MACH = .80

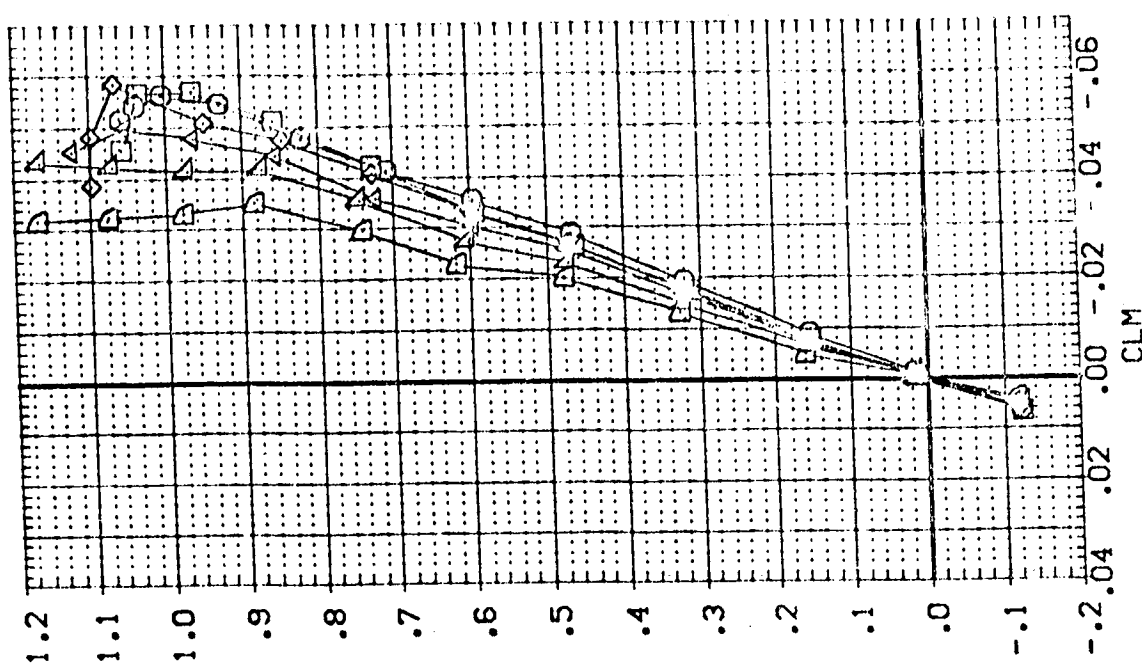
DATA SET NAME	CONFIGURATION	DESCRIPTION	LAPDAP	WING	RUSTLR	30FLAP	REFERENCE INFORMATION
(R-5007)	LARC 8-FT TPT 644	LG-100 CR8 TER(SHIPS) (B42VFB)	45,800	2,000	.000	.000	SCALE
(R-5009)	LARC 8-FT TPT 644	LG-100 CR8 TER(SHIPS) (B42VFB)	60,000	2,000	.000	.000	SCALE
(R-5010)	LARC 8-FT TPT 644	LG-100 CR8 TER(SHIPS) (B42VFB)	65,000	2,000	.000	.000	SCALE
(R-5011)	LARC 8-FT TPT 644	LG-100 CR8 TER(SHIPS) (B42VFB)	70,000	2,000	.000	.000	SCALE
(R-5012)	LARC 8-FT TPT 644	LG-100 CR8 TER(SHIPS) (B42VFB)	75,000	2,000	.000	.000	SCALE
(R-5013)	LARC 8-FT TPT 644	LG-100 CR8 TER(SHIPS) (B42VFB)	78,000	2,000	.000	.000	SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(CJMACH = .90

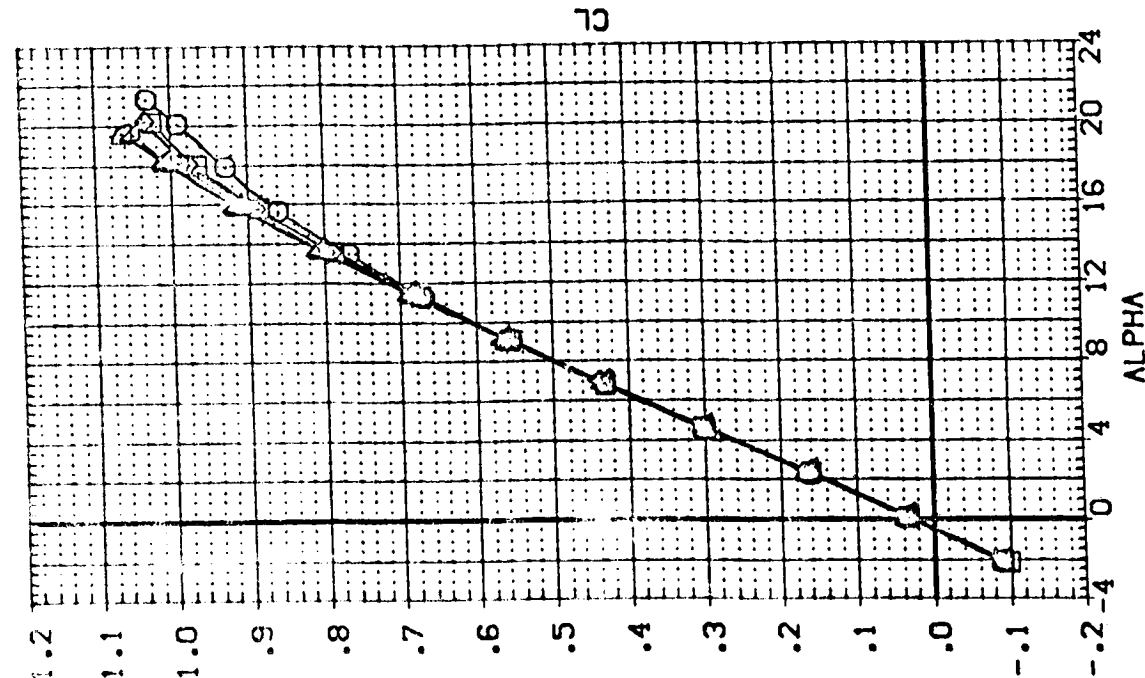
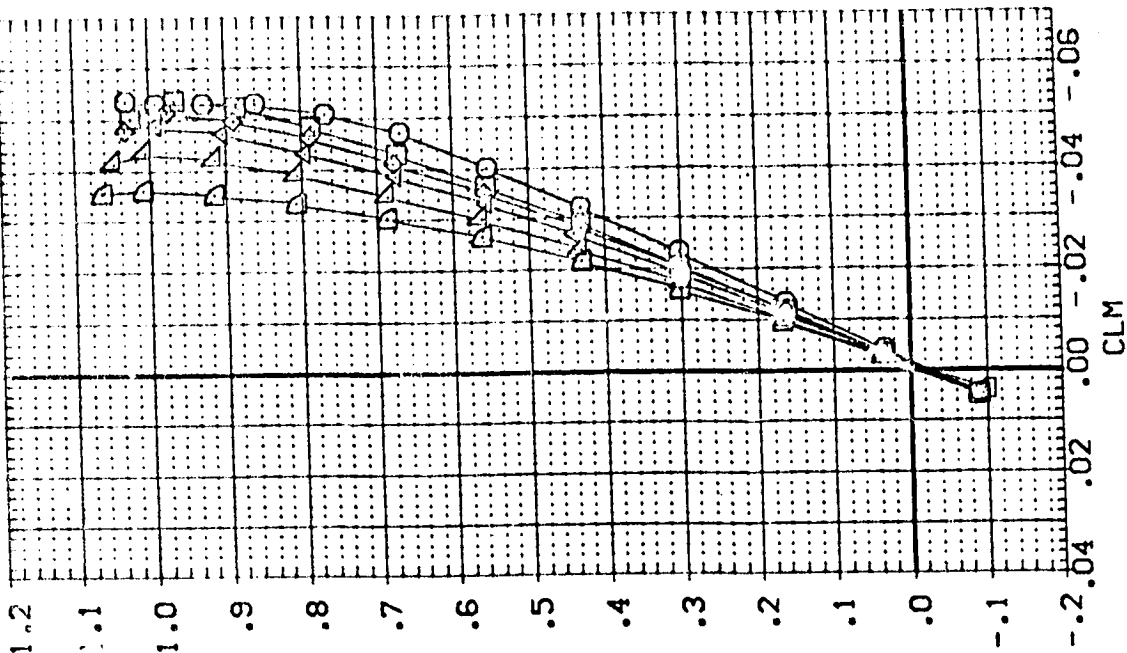
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BDFLAP	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ.IN.
(RPS009)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RPS010)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 23.3597 INCHES
(RPS011)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XREF 3533 INCHES
(RPS012)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YREF .0000 INCHES
(RPS013)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZREF .0188 INCHES
						SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(0)MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUEFLR	ROFLUP	REFERENCE INFORMATION
[005007]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)	46.800	2.000	1.000	0.00	2.00000000
[005008]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)	50.000	2.000	1.000	0.00	2.00000000
[005009]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)	65.000	2.000	1.000	0.00	2.00000000
[005010]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)	70.000	2.000	1.000	0.00	2.00000000
[005011]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)	75.000	2.000	1.000	0.00	2.00000000
[005012]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)	78.000	2.000	1.000	0.00	2.00000000
[005013]	LARC 8-FT TPT 644 LO-100 CR3 TER SHIPS (BV2VFB)					SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
(E)MACH = 1.20



DATA SET SYMBOL
 (RP5007)
 (RP5009)
 (RP5010)
 (RP5011)
 (RP5012)
 (RP5013)

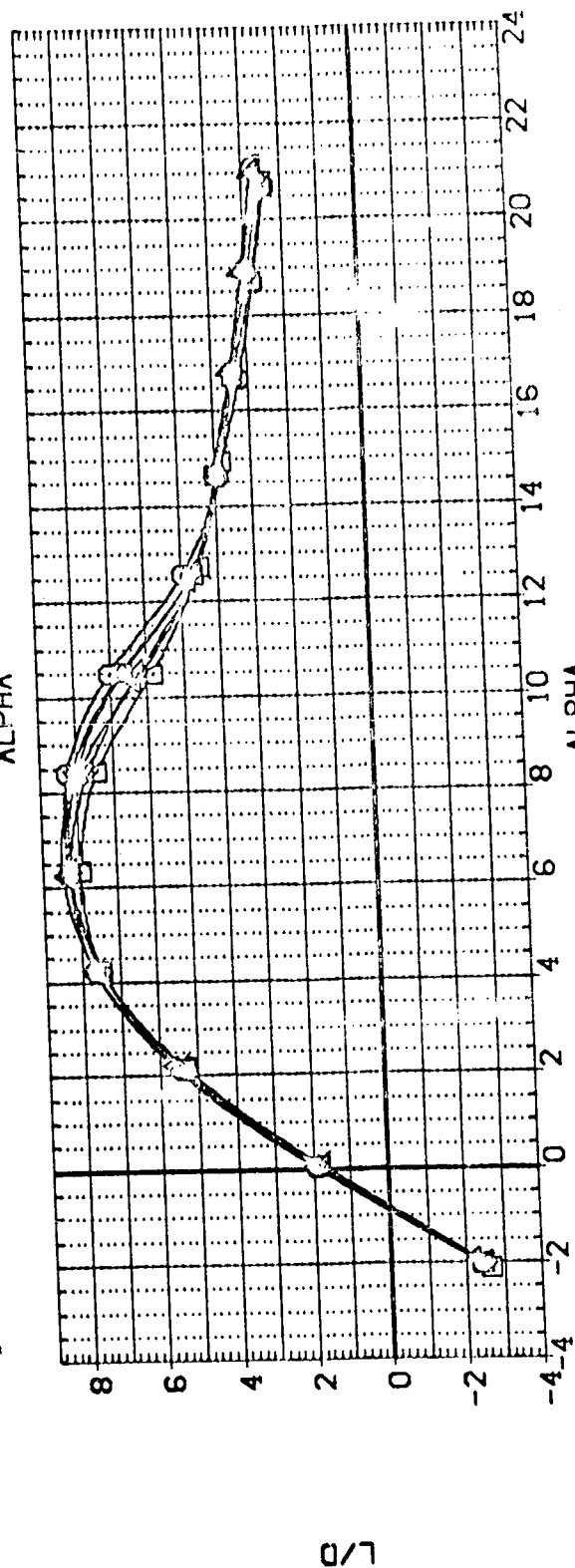
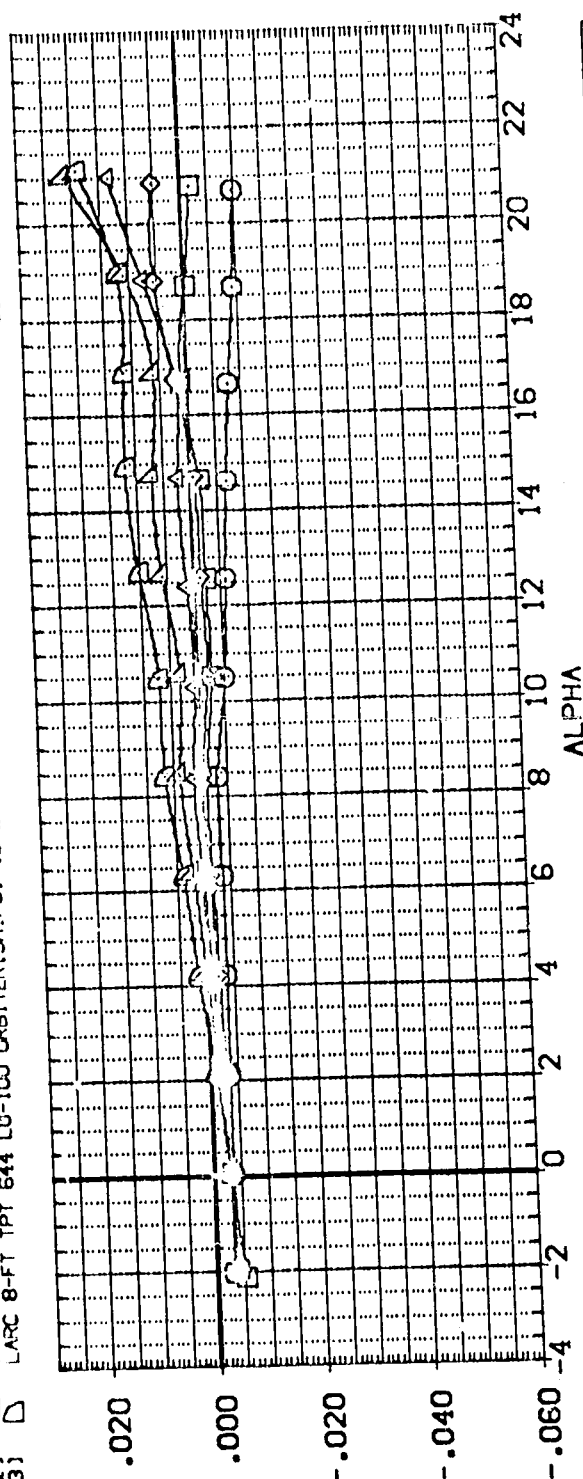
CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)

LAMDAF 46.800 (BV2VFB)
 60.000 (BV2VFB)
 65.000 (BV2VFB)
 70.000 (BV2VFB)
 75.000 (BV2VFB)
 78.000 (BV2VFB)

VINGNO 2.000
 2.000
 2.000
 2.000
 2.000
 2.000

BOFLAP .000
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3557
 XREF 16.8633
 YREF .0000
 ZREF .0000
 SCALE 0.188



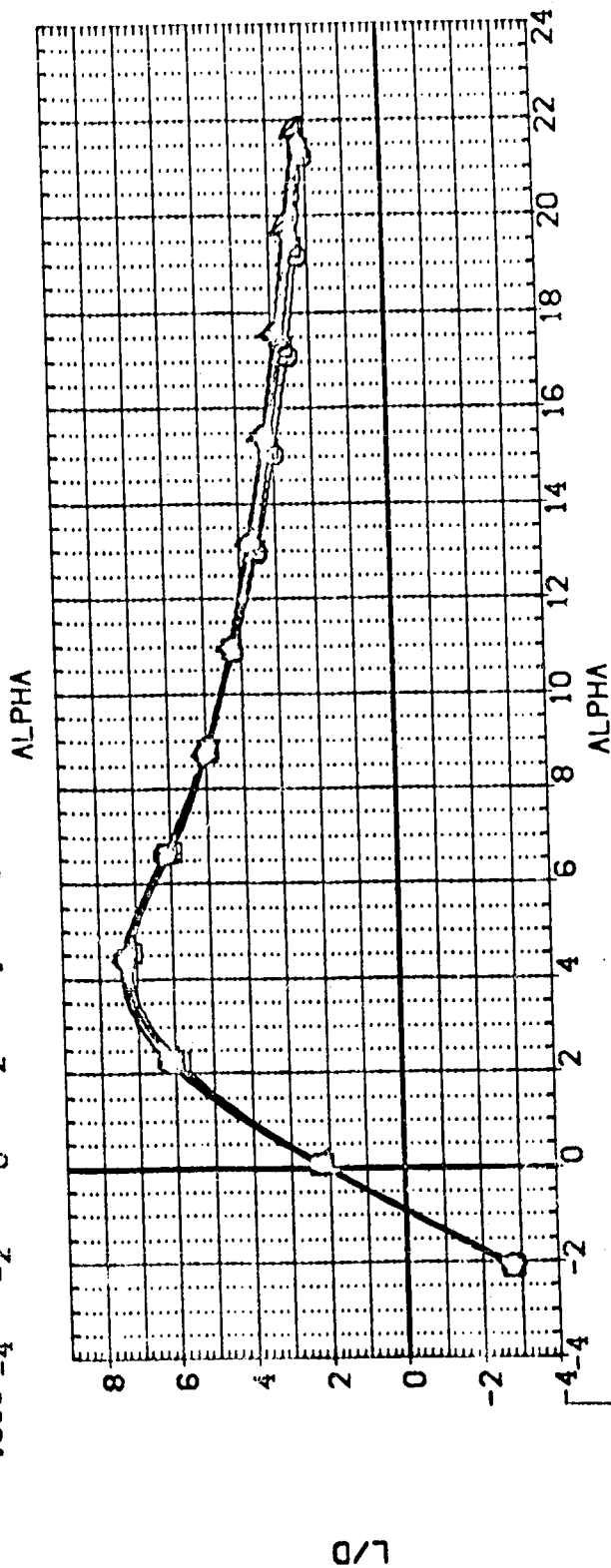
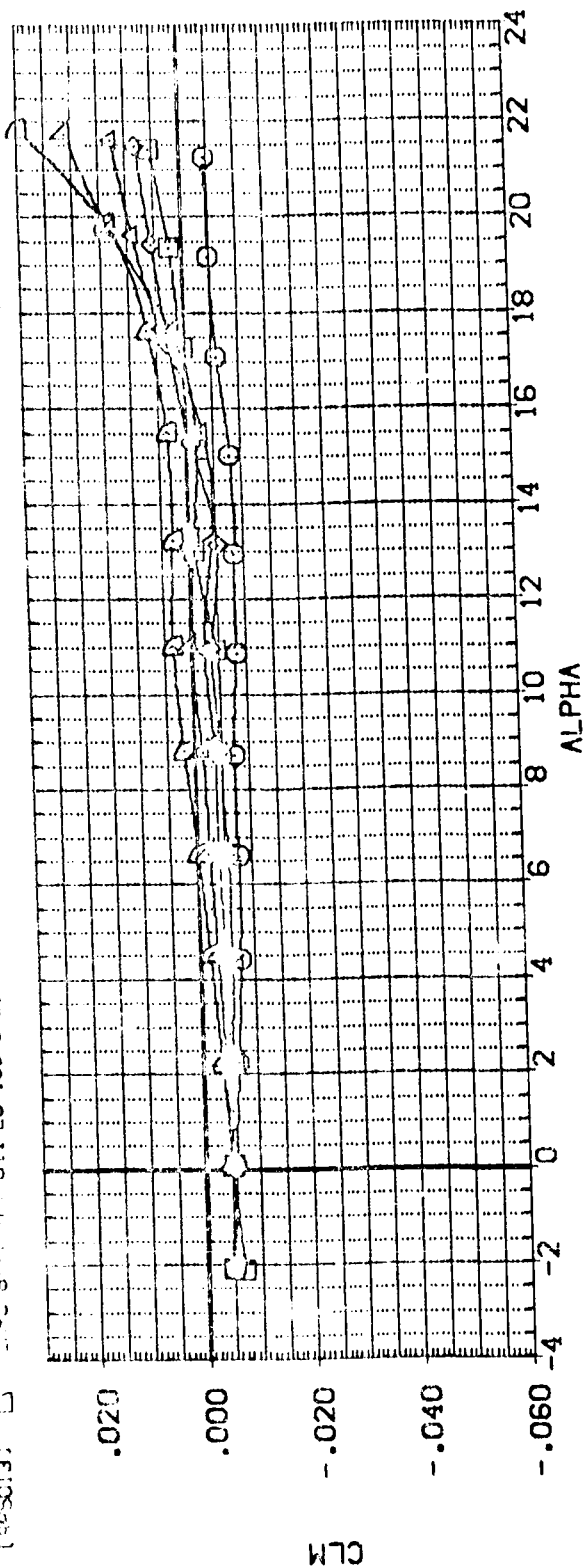
EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(A)MACH = .35

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LA/DAR	WING	PLUFL	REF LAR	REFERENCE INFORMATION
(000007)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	46.800	2.000	.000	.000	1.0000000
(000008)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	60.000	2.000	.000	.000	1.0000000
(000009)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	65.000	2.000	.000	.000	1.0000000
(000010)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	70.000	2.000	.000	.000	1.0000000
(000011)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	75.000	2.000	.000	.000	1.0000000
(000012)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	78.000	2.000	.000	.000	1.0000000
(000013)	W-33 TPT 644 LG-100 CRB1TER(SHIPS) (B42VFB)	78.000	2.000	.000	.000	1.0000000

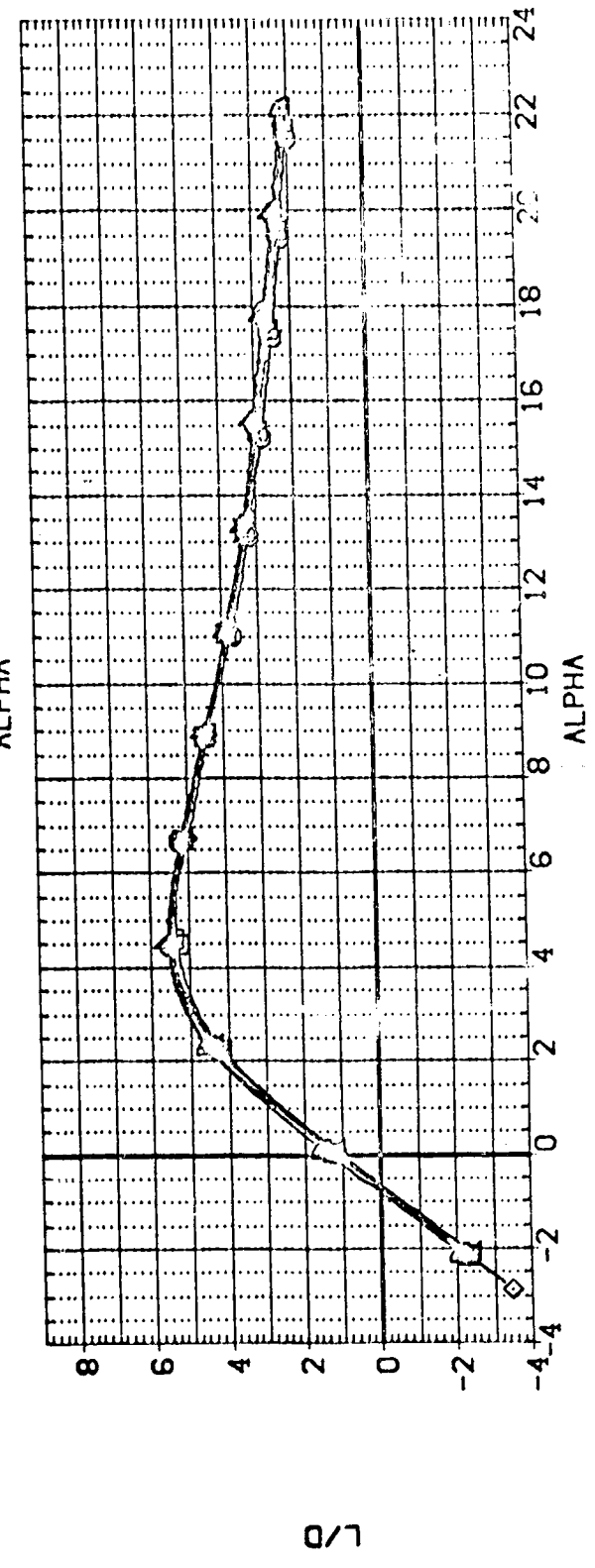
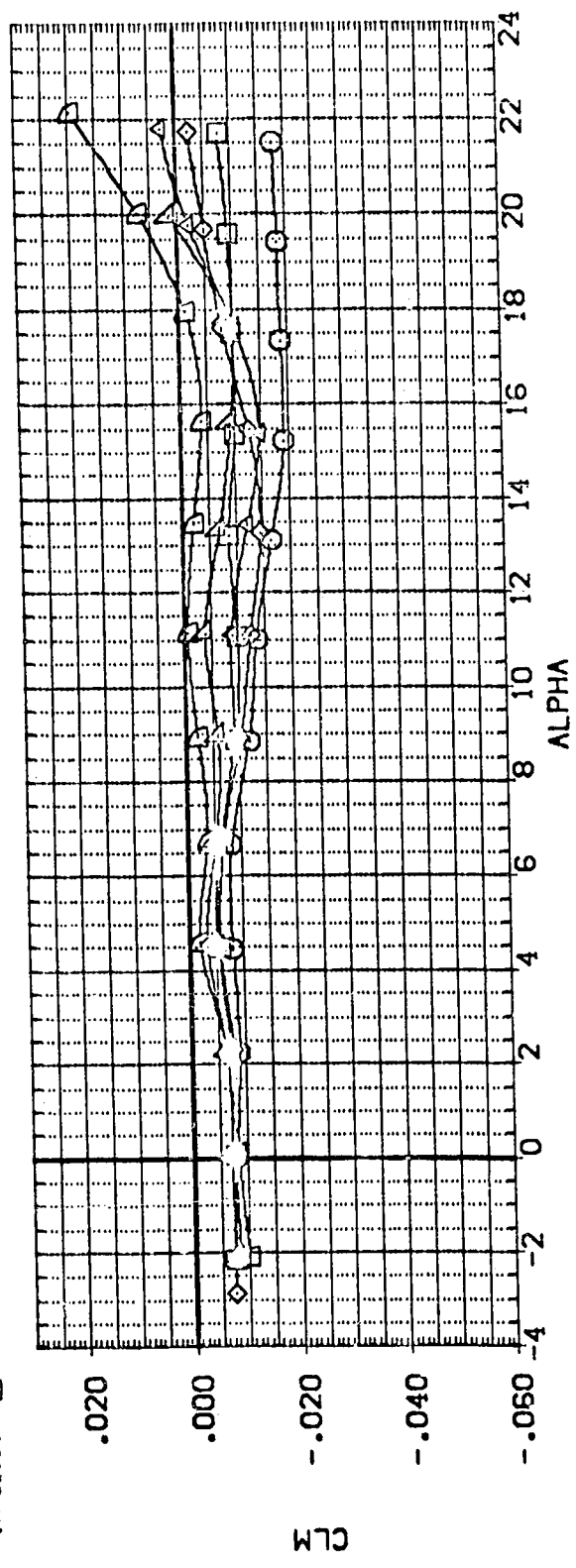
SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMP	VING	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIP)	46.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(RP5008)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIP)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIP)	55.000	2.000	.000	.000	BREF 20.3557 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIP)	70.000	2.000	.000	.000	XREF 16.9533 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIP)	75.000	2.000	.000	.000	YREF .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 CRBITER(SHIP)	78.000	2.000	.000	.000	ZREF .0188 INCHES
						SCALE



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

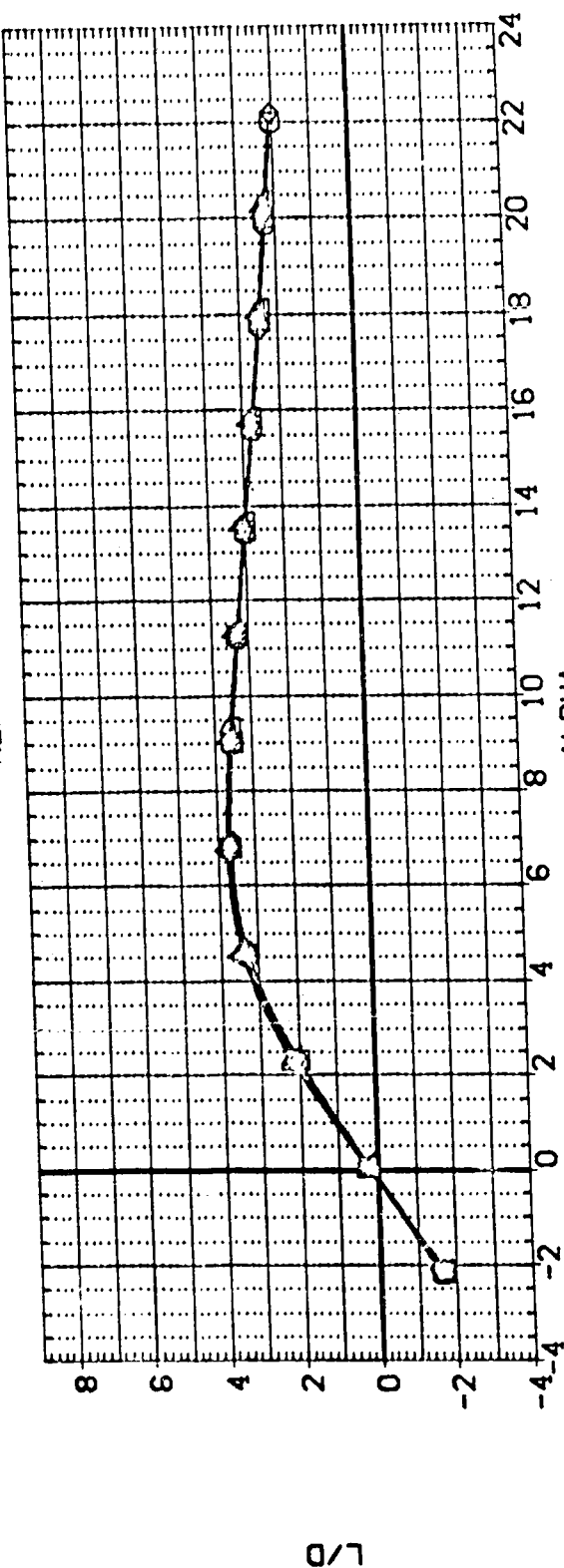
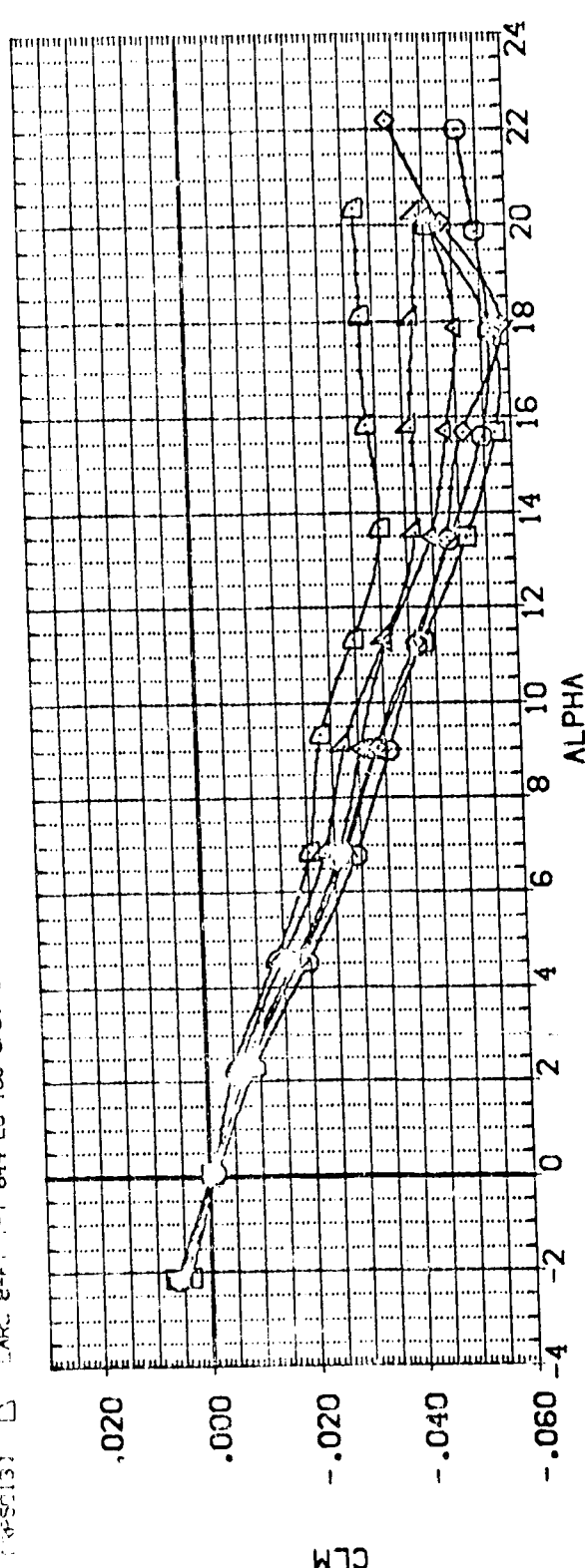
ARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV2VFB)

ARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV2VFB)

ARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV2VFB)

ARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV2VFB)

ARC 8-FT TPT 644 LO-100 CR8 TER(SHIPS) (BV2VFB)

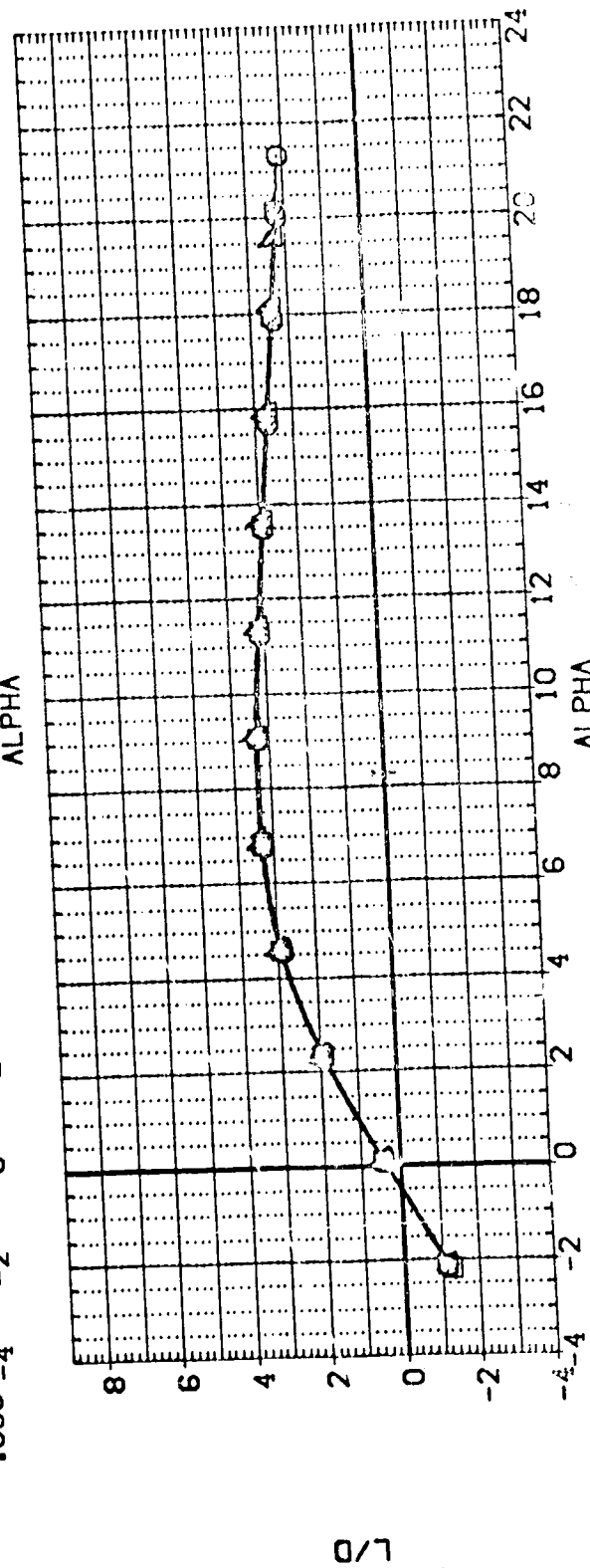
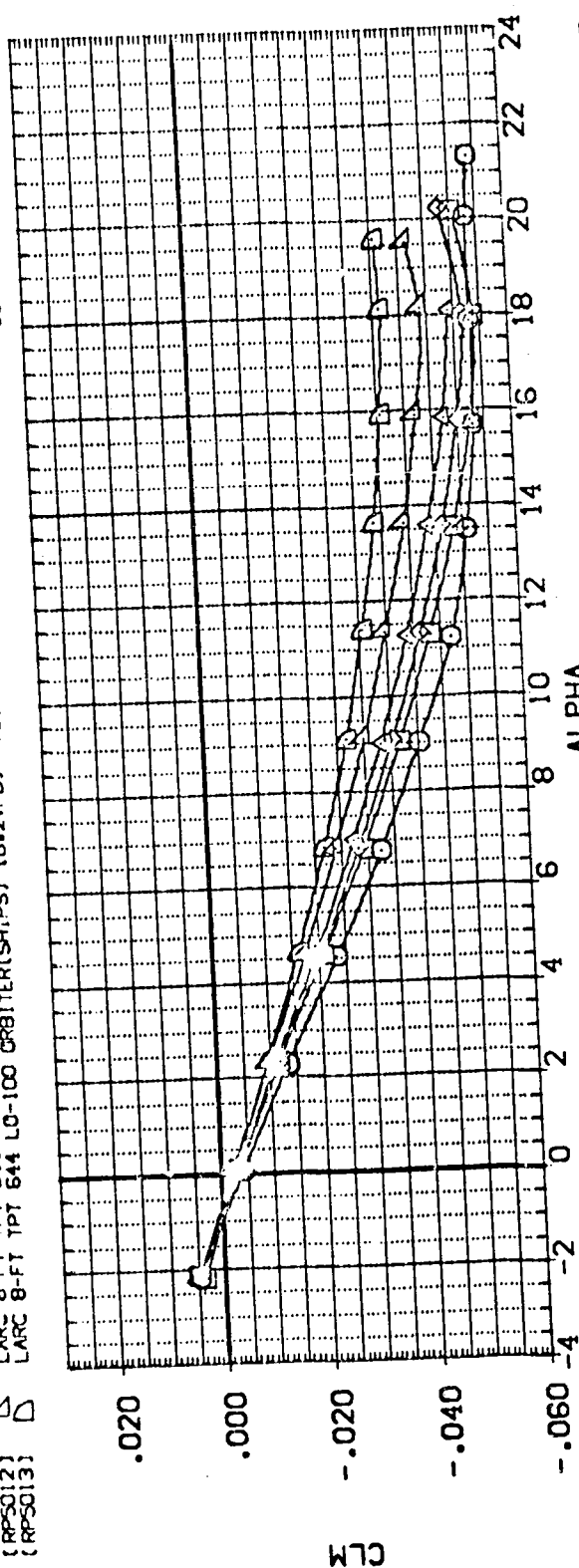


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

COMMACH = .98



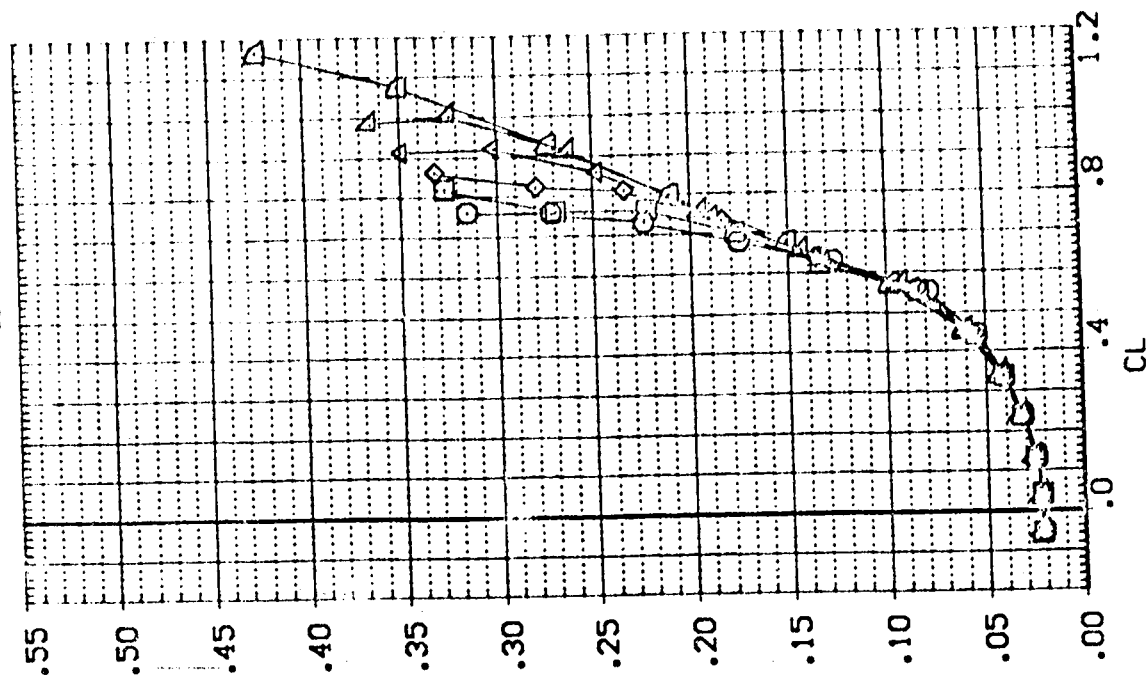
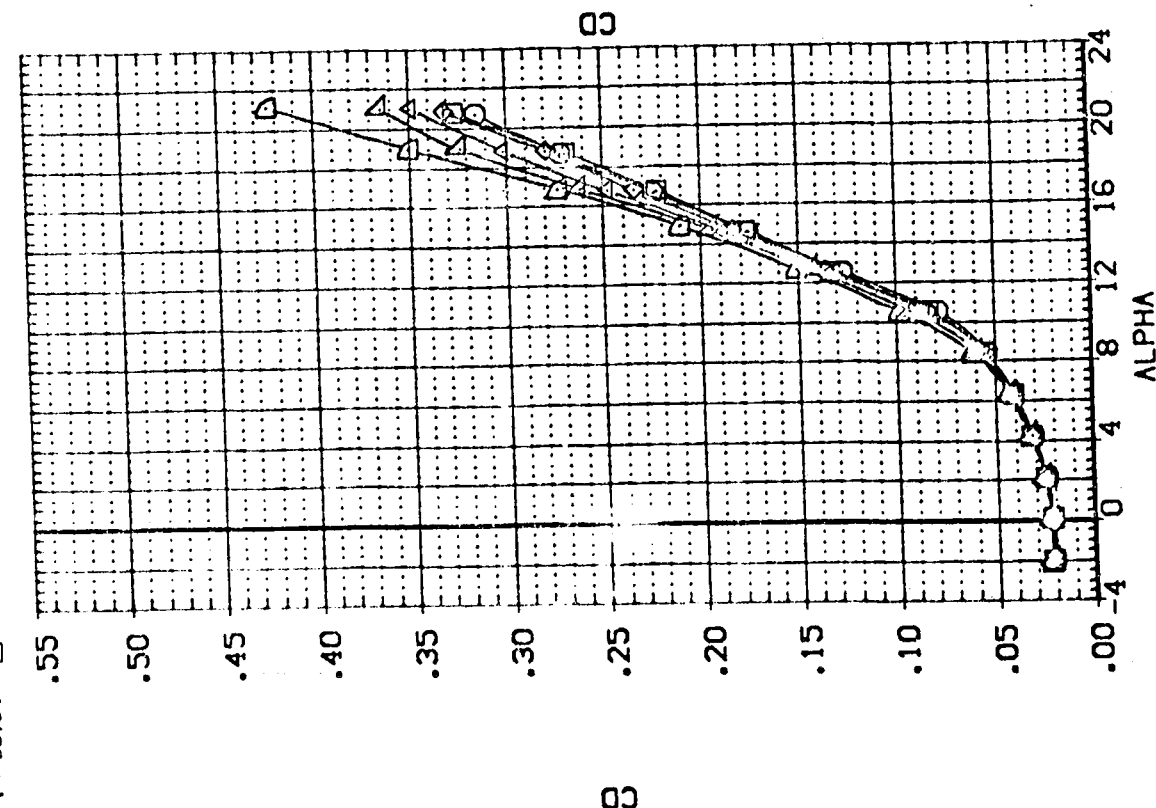
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMP	VINGNO	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ.IN.
(RP5009)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 23.2597 INCHES
(RP5011)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XMPP 16.6533 INCHES
(RP5012)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YMPP .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZMPP .0000 INCHES
						SCALE C1.88



EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(E)MACH = 1.20

	REFERENCE INFORMATION
SCALE	17-4700
LOOSE	5886
SCALE	2900
SCALE	8000
X-00	8000
X-00	8000
X-00	8000
SCALE	8000

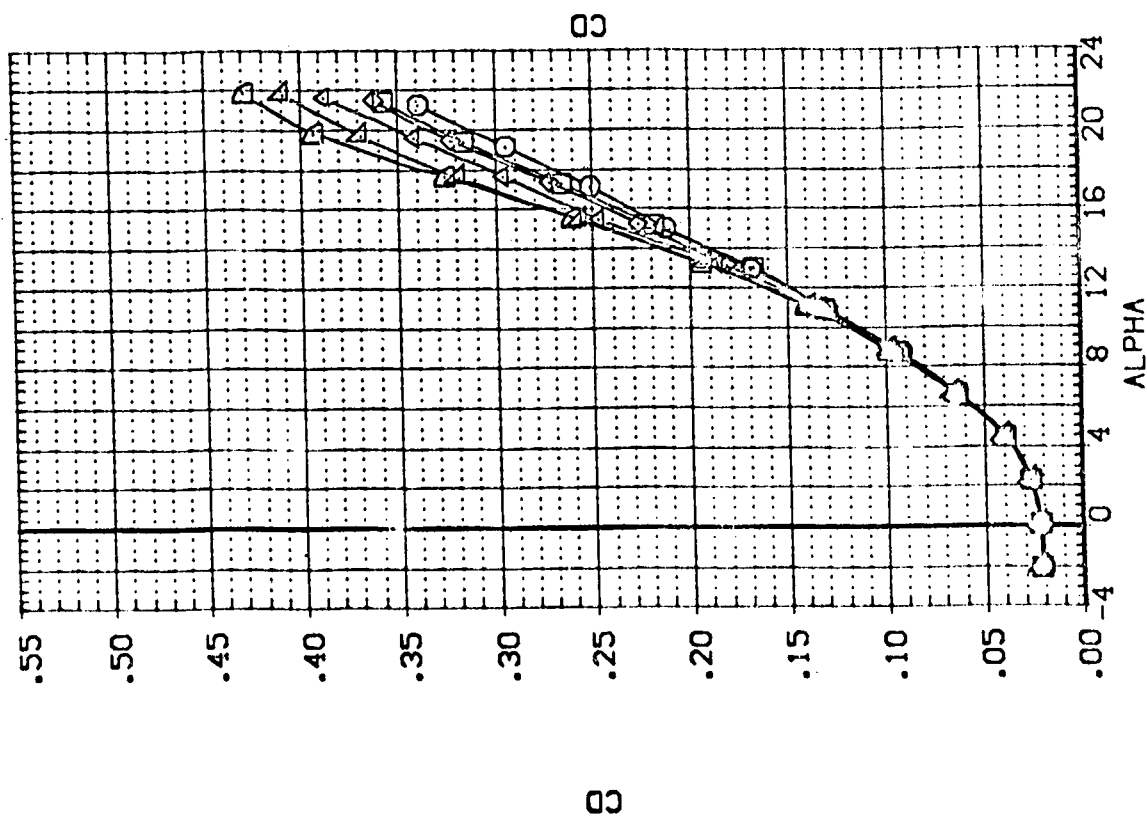
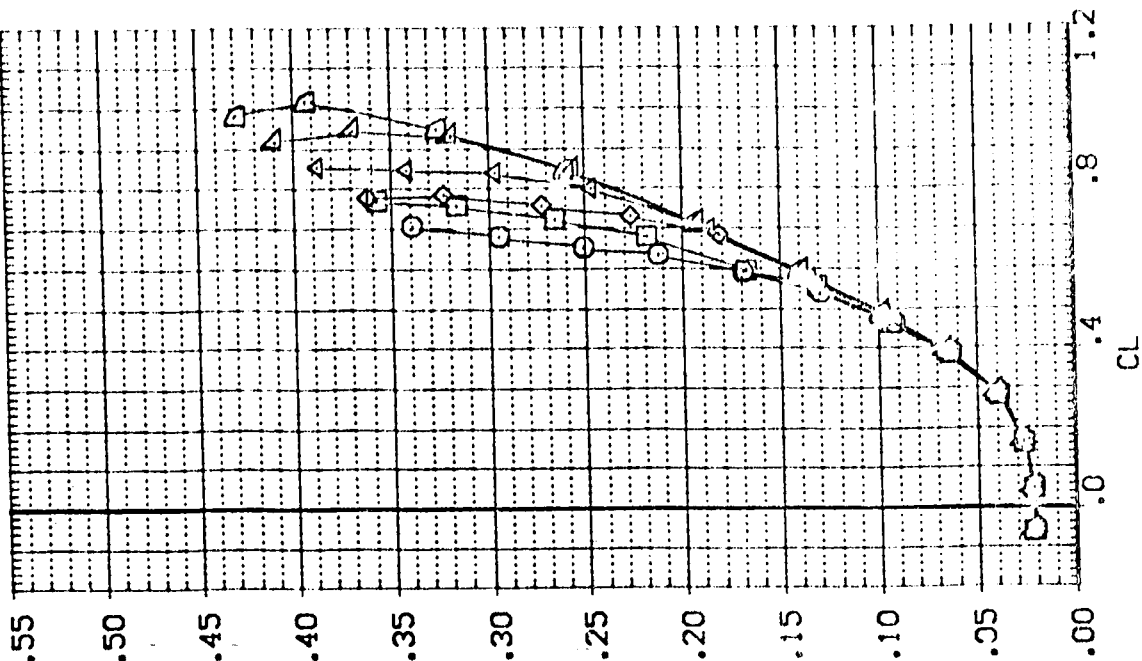


EFFECT OF FILLET ON W-33 WING (B W2 V FB)

$$[A]_{MACH} = .35$$

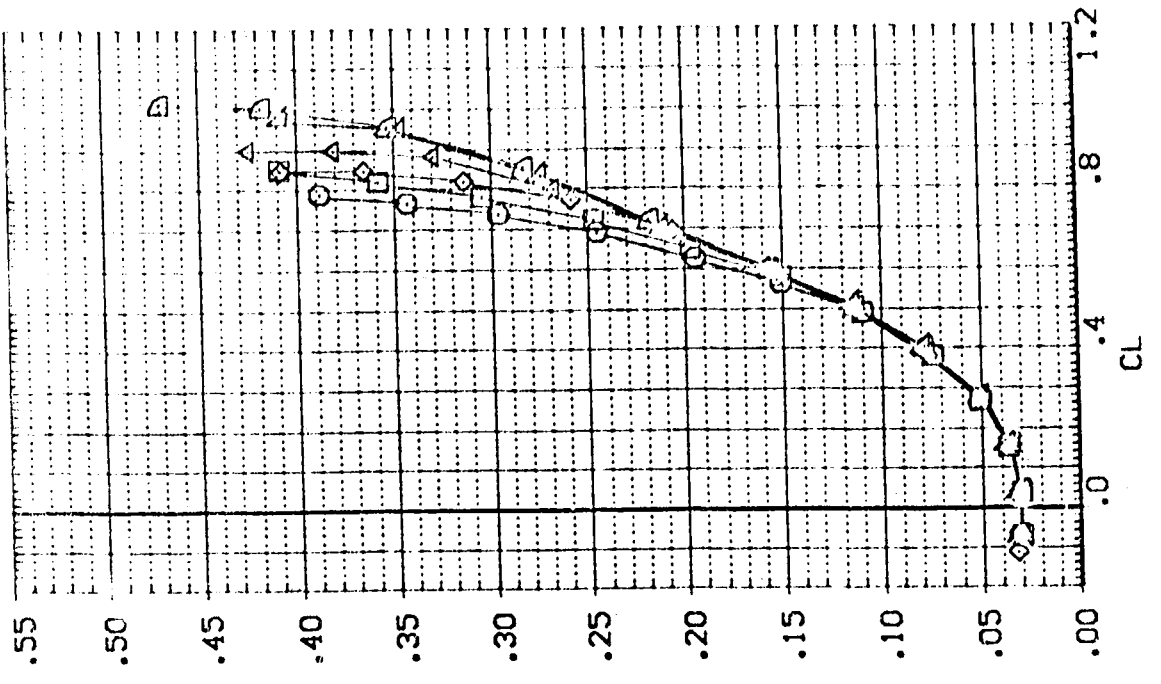


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGAO	ROFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ.IN.
(RP5009)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5010)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	BREF 20.3657 INCHES
(RP5011)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	XREF 16.8633 INCHES
(RP5012)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	YREF .0000 INCHES
(RP5013)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	ZREF .0000 INCHES
						SCALE .0188 SCALE



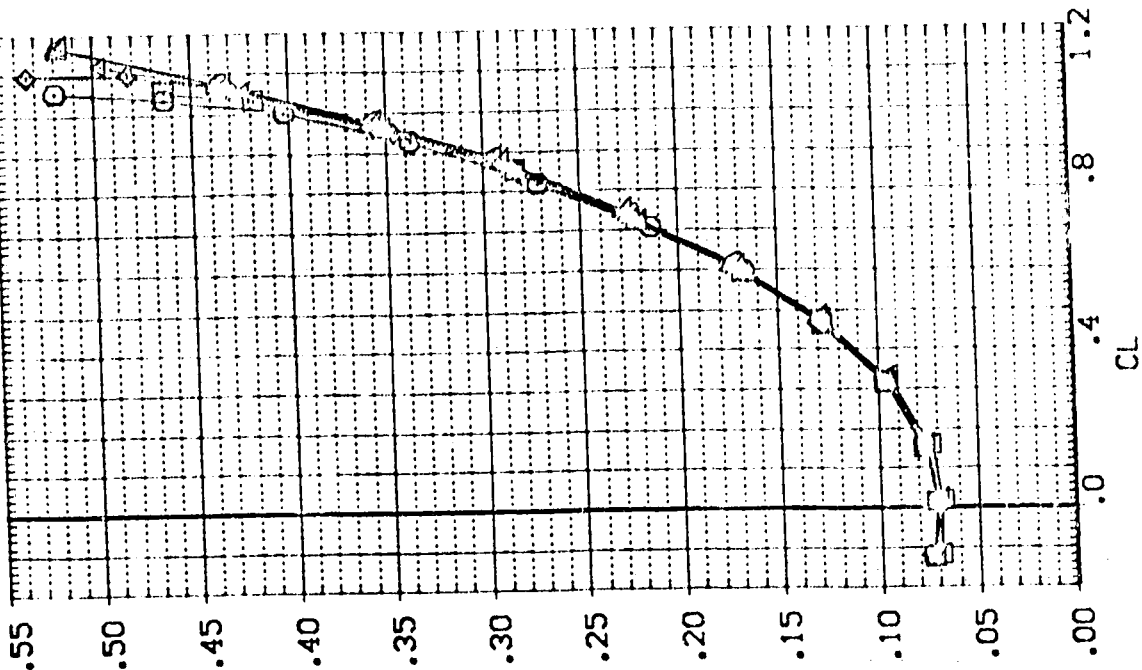
EFFECT OF FILLET ON W-33 WING (B W2 V FB)

(B)MACH = .80

[illegible]
$$[C]_{MACH} = .90$$

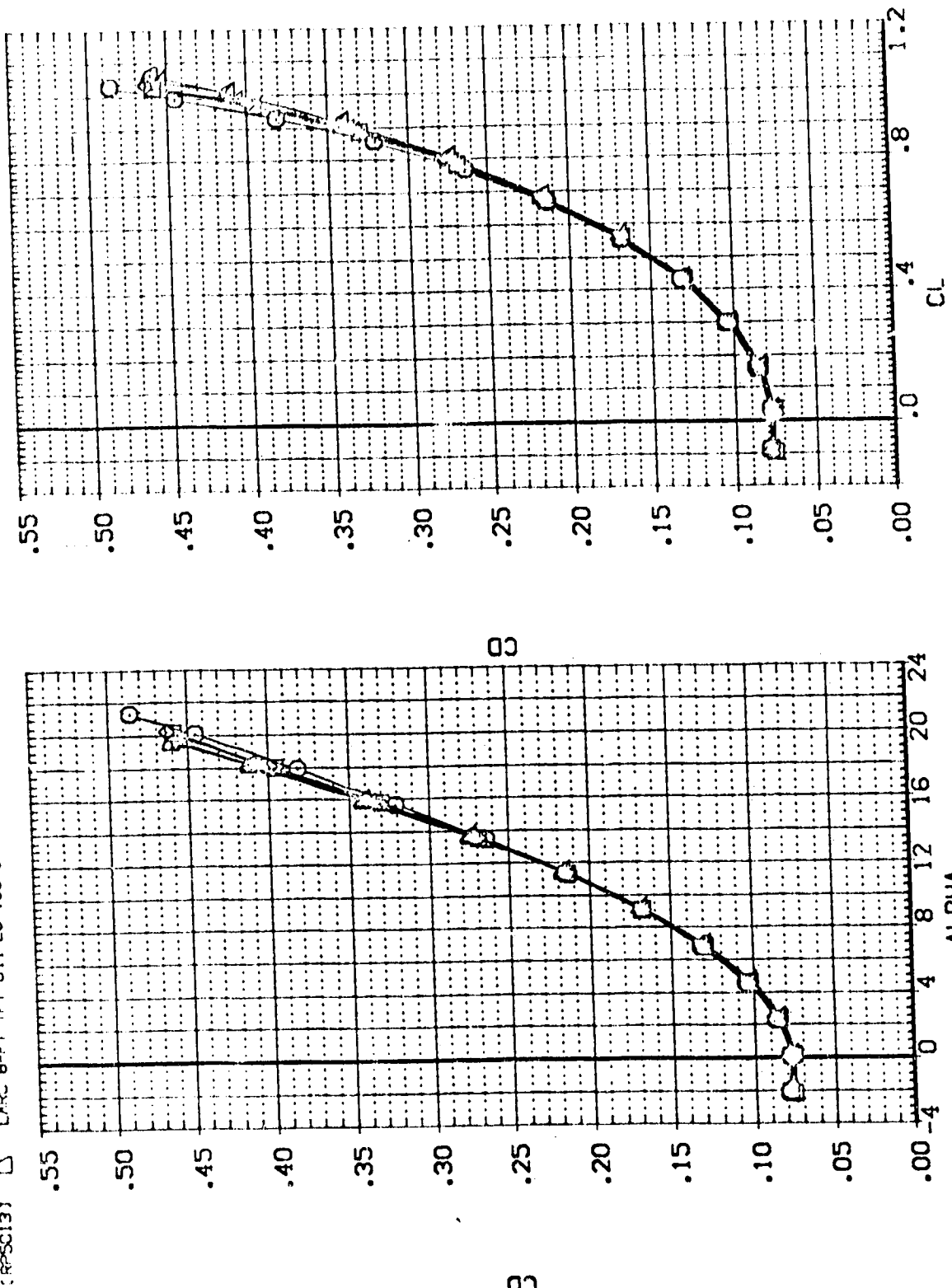


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RJDFLR	BOFLAP	REFERENCE INFORMATION
[RPS007]	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS)	46.800	2.000	.000	.000	SREF 171.4720
[RPS009]	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS)	60.000	2.000	.000	.000	LREF 25.5100
[RPS010]	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS)	65.000	2.000	.000	.000	BREF 20.3597
[RPS011]	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS)	70.000	2.000	.000	.000	XREF 15.8533
[RPS012]	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS)	75.000	2.000	.000	.000	YREF .0000
[RPS013]	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS)	78.000	2.000	.000	.000	ZREF .0000
						SCALE .0188



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
(0)MACH = .98

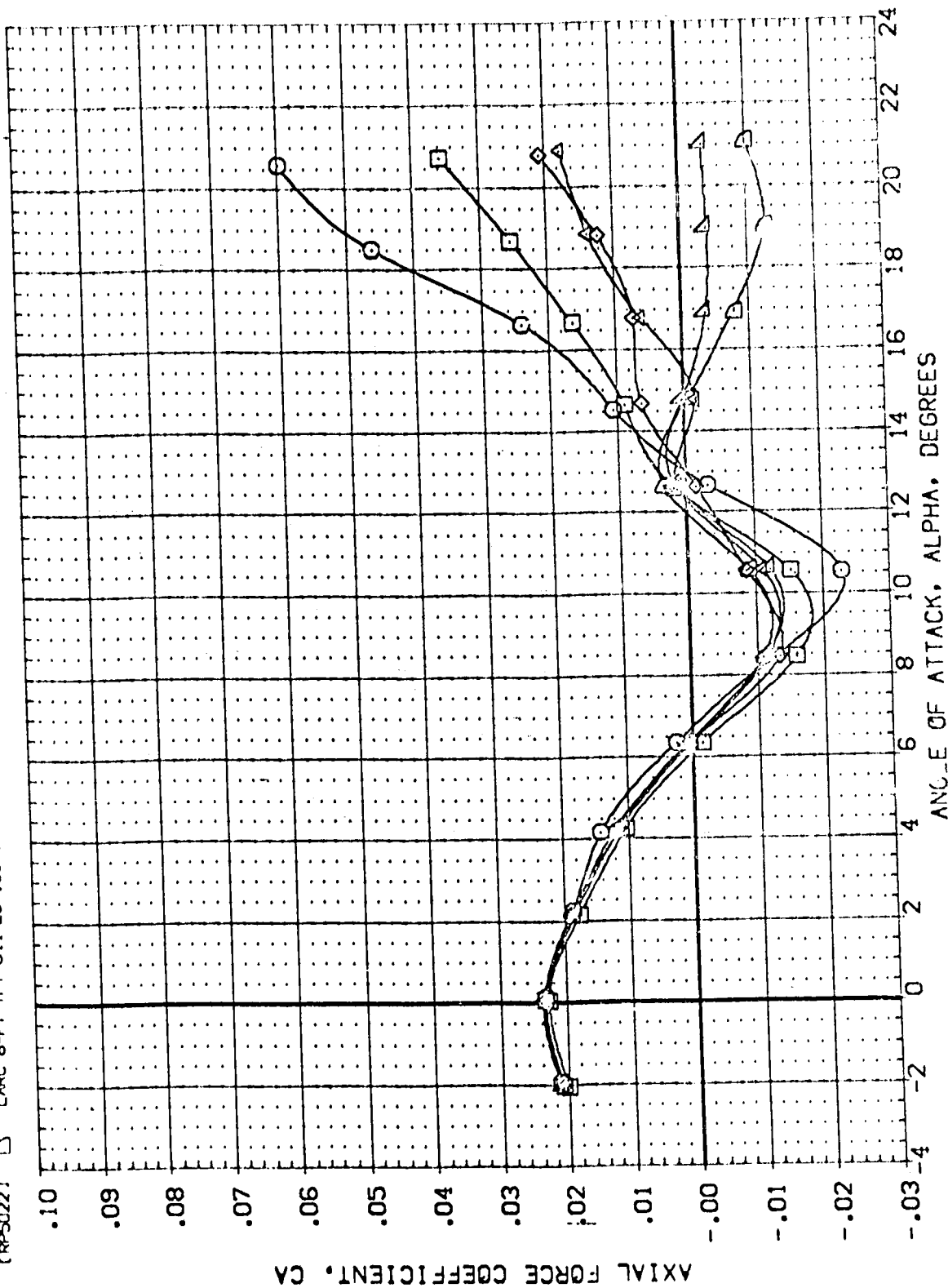
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
[RPS007]	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	171.4720
[RPS009]	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	60.000	2.000	.000	.000	25.5100
[RPS010]	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	65.000	2.000	.000	.000	23.8633
[RPS011]	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	70.000	2.000	.000	.000	18.0000
[RPS012]	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	10.0000
[RPS013]	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BV2VFB)	78.000	2.000	.000	.000	0.0000



EFFECT OF FILLET ON W-33 WING (B W2 V FB)
(E)MACH = 1.20



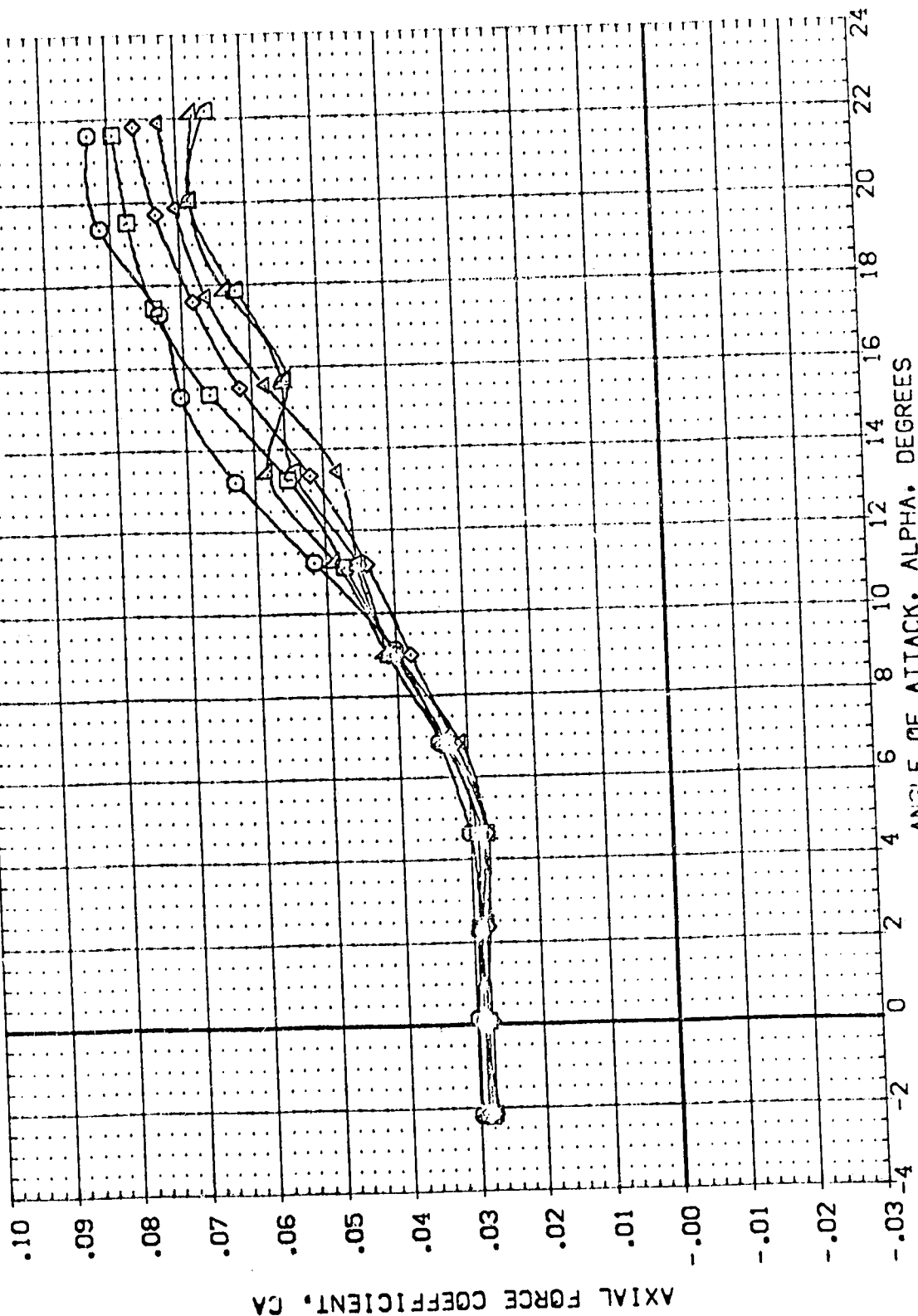
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SQ IN
(RPS018)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RPS019)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 22.8095 INCHES
(RPS020)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XREF 16.8633 INCHES
(RPS021)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YREF .0000 INCHES
(RPS022)	LARC 8-FT TPT 644 LO-100 CRB TER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZREF .0000 INCHES
						SCALE .0188



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(MACH = .35

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAPDIF	WINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LG-100 CR81TER(SH)PS (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SCALE
(RP5018)	LARC 8-FT TPT 644 LG-100 CR81TER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 SCALE
(RP5019)	LARC 8-FT TPT 644 LG-100 CR81TER(SH)PS (BV3VFB)	65.000	3.000	.000	.000	BREF 20.5033 SCALE
(RP5020)	LARC 8-FT TPT 644 LG-100 CR81TER(SH)PS (BV3VFB)	70.000	3.000	.000	.000	YKRP 16.6833 SCALE
(RP5021)	LARC 8-FT TPT 644 LG-100 CR81TER(SH)PS (BV3VFB)	75.000	3.000	.000	.000	YKRP .0000 SCALE
(RP5022)	LARC 8-FT TPT 644 LG-100 CR81TER(SH)PS (BV3VFB)	78.000	3.000	.000	.000	ZKRP .0188 SCALE

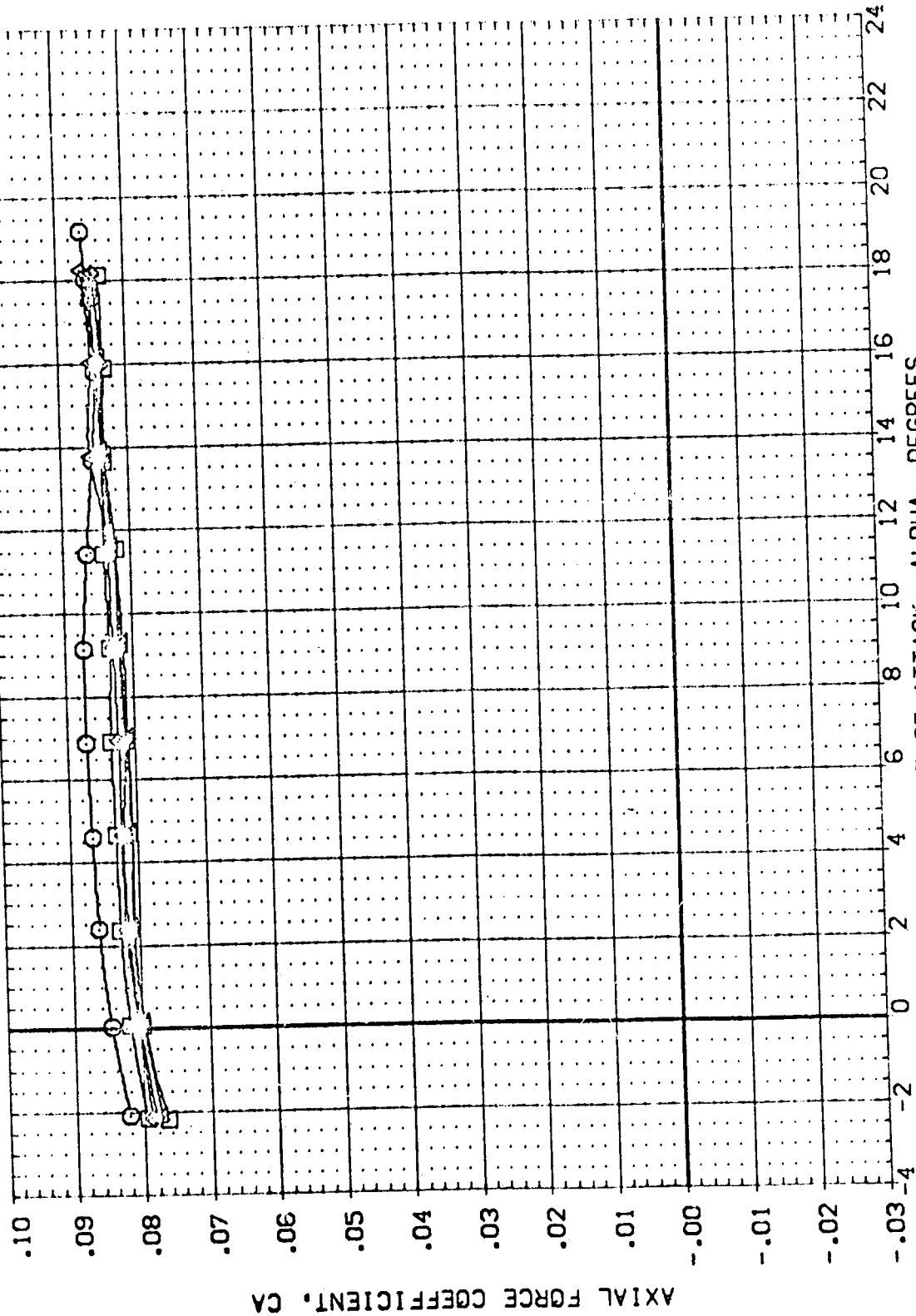


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(C)MACH = .90

DATA SET SW 30. CONFIGURATION DESCRIPTION REFERENCE INFORMATION

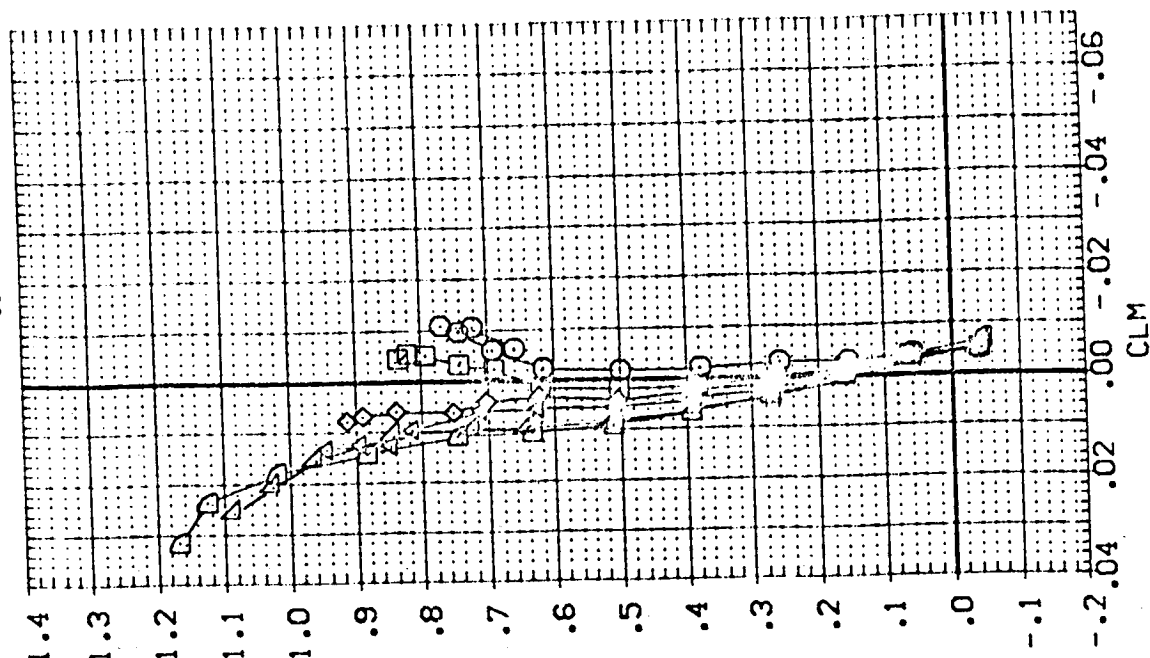
DATA SET SW 30	CONFIGURATION DESCRIPTION	REF	BOFLAP	RUFLR	WING	LAPAF	WING	RUFLR	BOFLAP	REF	SCALE
(RPS016)	LARC 8-FT TPT 644 LG-100 CR3ITER(SHIPS) (BV3VFB)	173.1312	.000	.000	3.000	35.000	3.000	.000	.000	25.5100	0.88
(RPS018)	LARC 8-FT TPT 644 LG-100 CR3ITER(SHIPS) (BV3VFB)	20.9036	.000	.000	3.000	55.000	3.000	.000	.000	16.8333	0.88
(RPS019)	LARC 8-FT TPT 644 LG-100 CR3ITER(SHIPS) (BV3VFB)	16.8333	.000	.000	3.000	65.000	3.000	.000	.000	16.8333	0.88
(RPS020)	LARC 8-FT TPT 644 LG-100 CR3ITER(SHIPS) (BV3VFB)	16.8333	.000	.000	3.000	70.000	3.000	.000	.000	16.8333	0.88
(RPS021)	LARC 8-FT TPT 644 LG-100 CR3ITER(SHIPS) (BV3VFB)	16.8333	.000	.000	3.000	75.000	3.000	.000	.000	16.8333	0.88
(RPS022)	LARC 8-FT TPT 644 LG-100 CR3ITER(SHIPS) (BV3VFB)	16.8333	.000	.000	3.000	78.000	3.000	.000	.000	16.8333	0.88



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(MACH = 1.20)

REFERENCE INFORMATION	
SREF	173.1312
LREF	25.5000
BREF	20.8833
XREF	16.0000
YREF	0.0000
ZREF	0.0000
SCALE	0.1000


$$\{A\}_{MACH} = .35$$

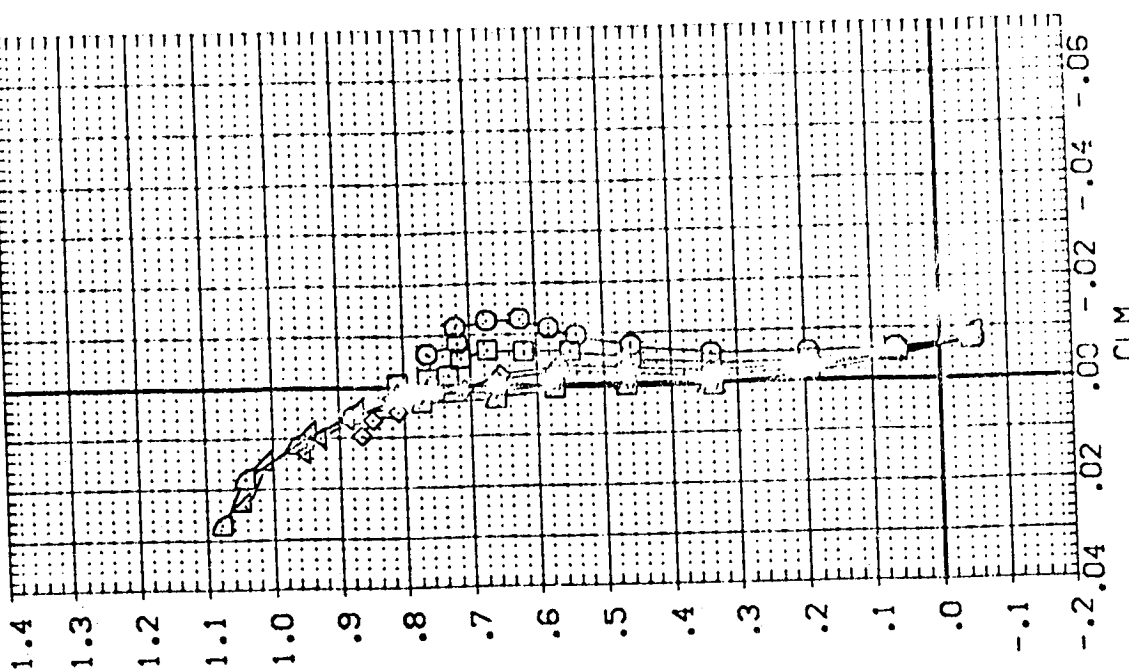
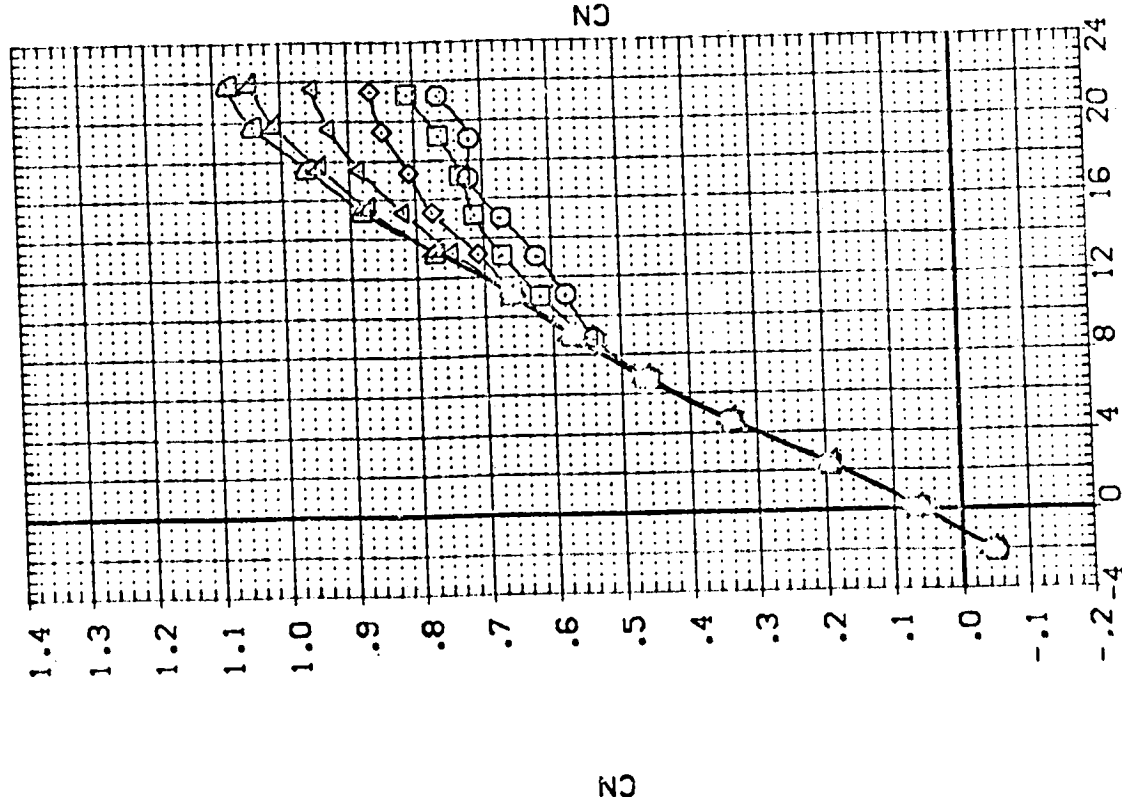
DATA SET SYMBOLS
 (RPS016)
 (RPS018)
 (RPS019)
 (RPS020)
 (RPS021)
 (RPS022)

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)

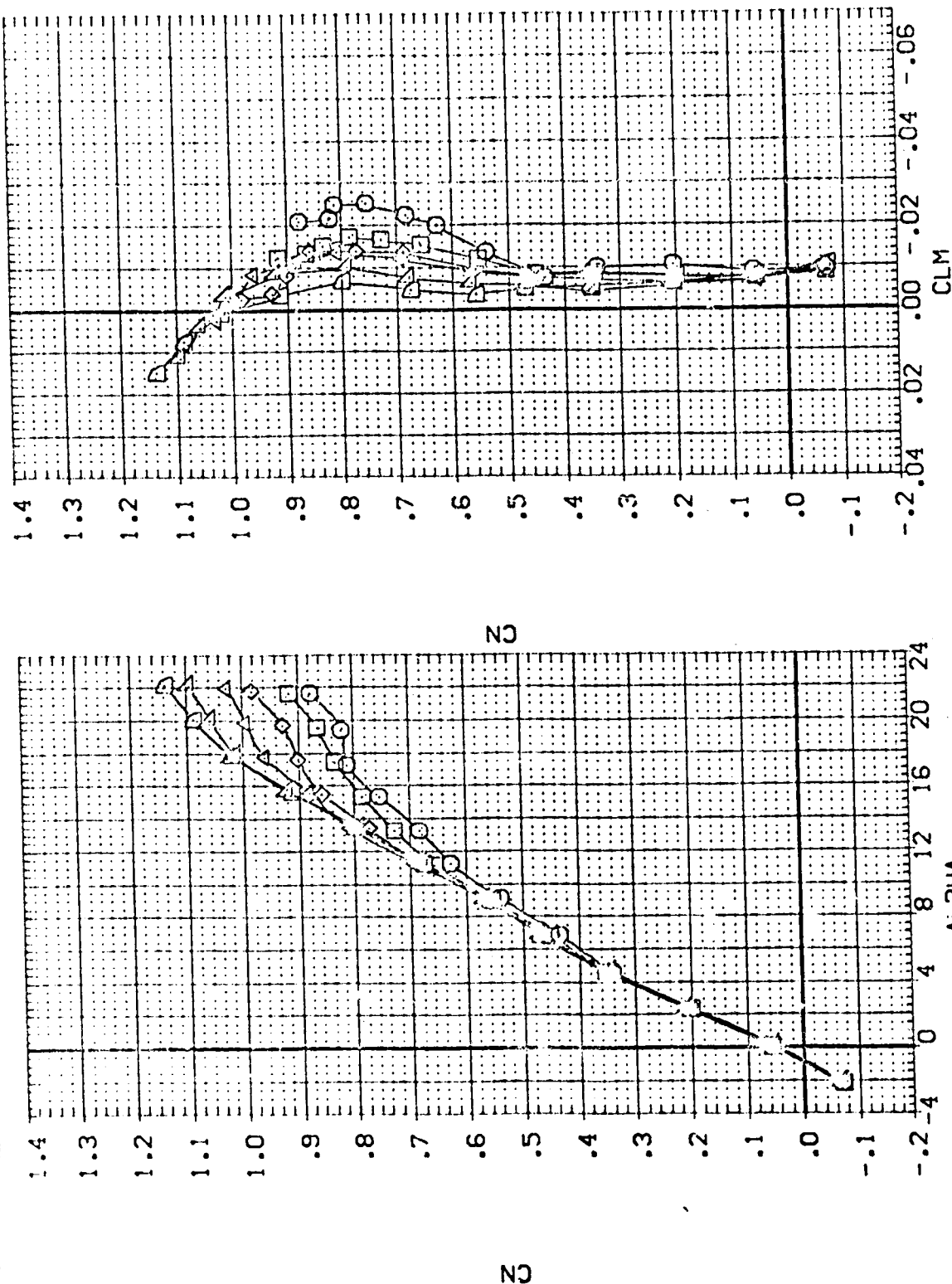
LAMDAF VINGV0 RUOFLR BOFLAP
 35.000 3.000 .000 .000
 55.000 3.000 .000 .000
 65.000 3.000 .000 .000
 70.000 3.000 .000 .000
 75.000 3.000 .000 .000
 78.000 3.000 .000 .000

REFERENCE INFORMATION
 SREF 173.1312 SQ IN
 LREF 25.5100 IN
 BREF 20.6333 IN
 XREF 16.0000 IN
 YREF 0.0000 IN
 ZREF 0.0000 IN
 SCALE 0.189



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80

[illegible]

CONFIDENTIAL

$$CCMACH = .90$$

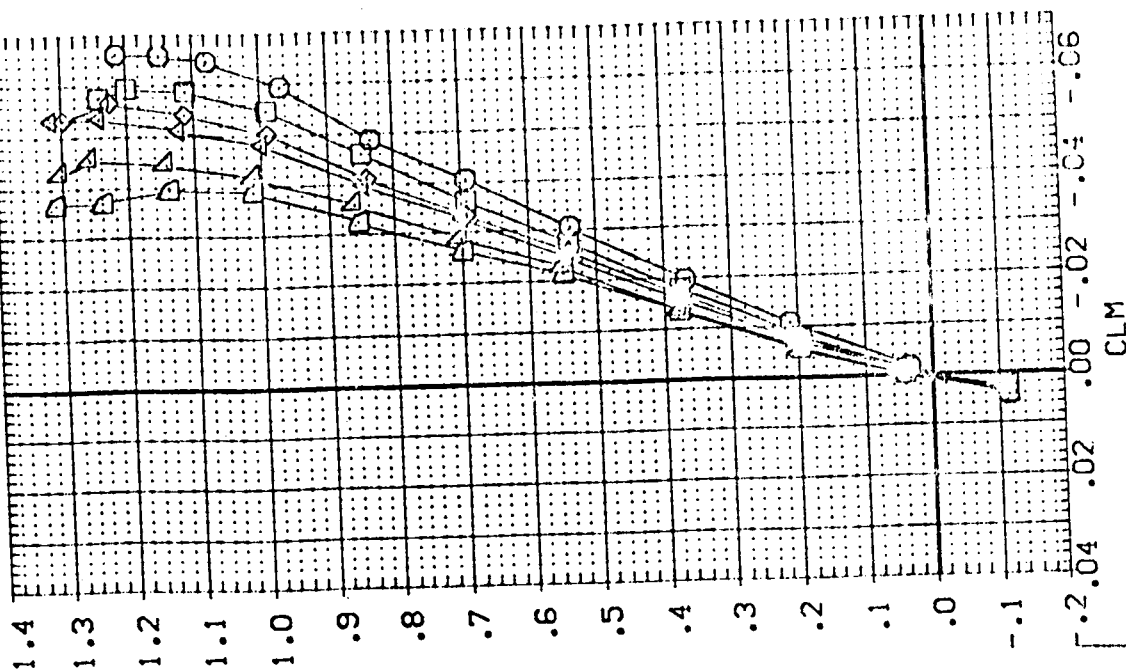
DATA SET SYMBOLS
 (R5016)
 (R5018)
 (R5019)
 (R5020)
 (R5021)
 (R5022)

CONFIGURATION DESCRIPTION

LARC 8-ET TPT 644 LO-100 CR811TER(SH)PS (BV3VFB)
 LARC 8-ET TPT 644 LO-100 CR811TER(SH)PS (BV3VFB)
 LARC 8-ET TPT 644 LO-100 CR811TER(SH)PS (BV3VFB)
 LARC 8-ET TPT 644 LO-100 CR811TER(SH)PS (BV3VFB)
 LARC 8-ET TPT 644 LO-100 CR811TER(SH)PS (BV3VFB)
 LARC 8-ET TPT 644 LO-100 CR811TER(SH)PS (BV3VFB)

REFERENCE INFORMATION

LAMDAF 35.000
 VINGNO 3.000
 RUOFLR .000
 BOFLAP .000
 SREF 173.1312
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 BREF 20.6000
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 ZREF .0000
 SCALE 1.000

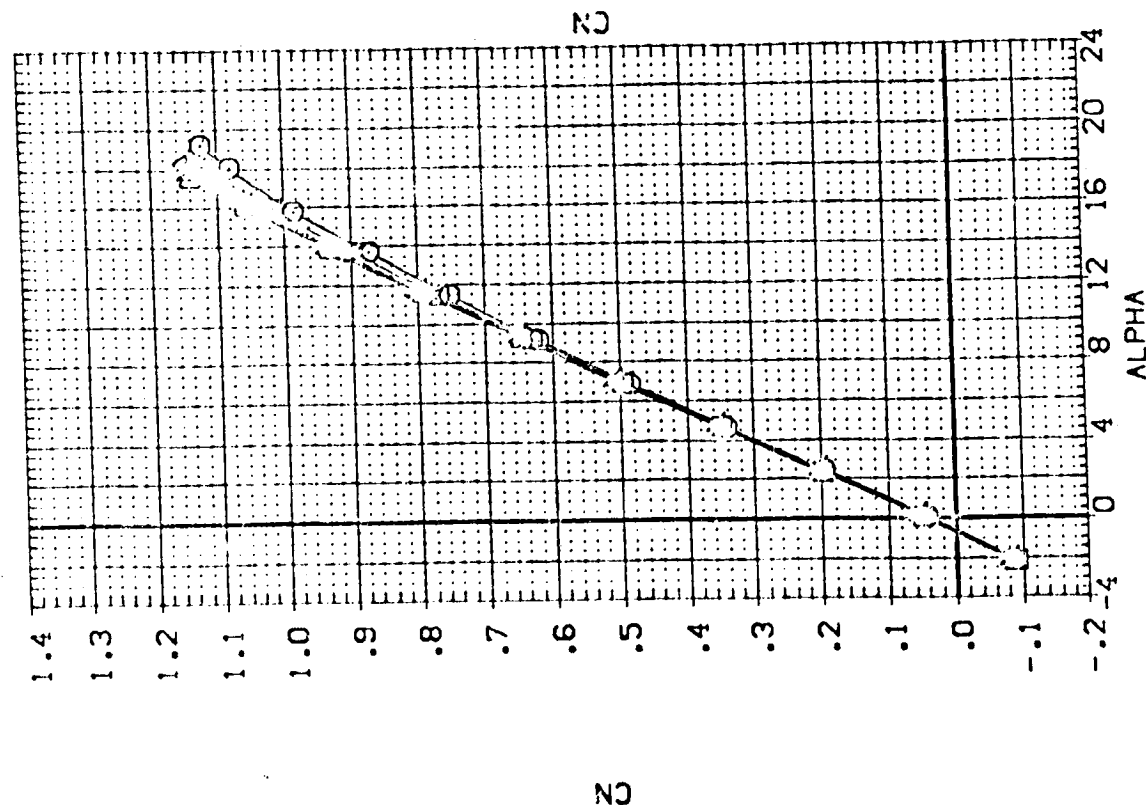


ALPHA

EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(0)MACH = .98

DATA SET SYMBOL

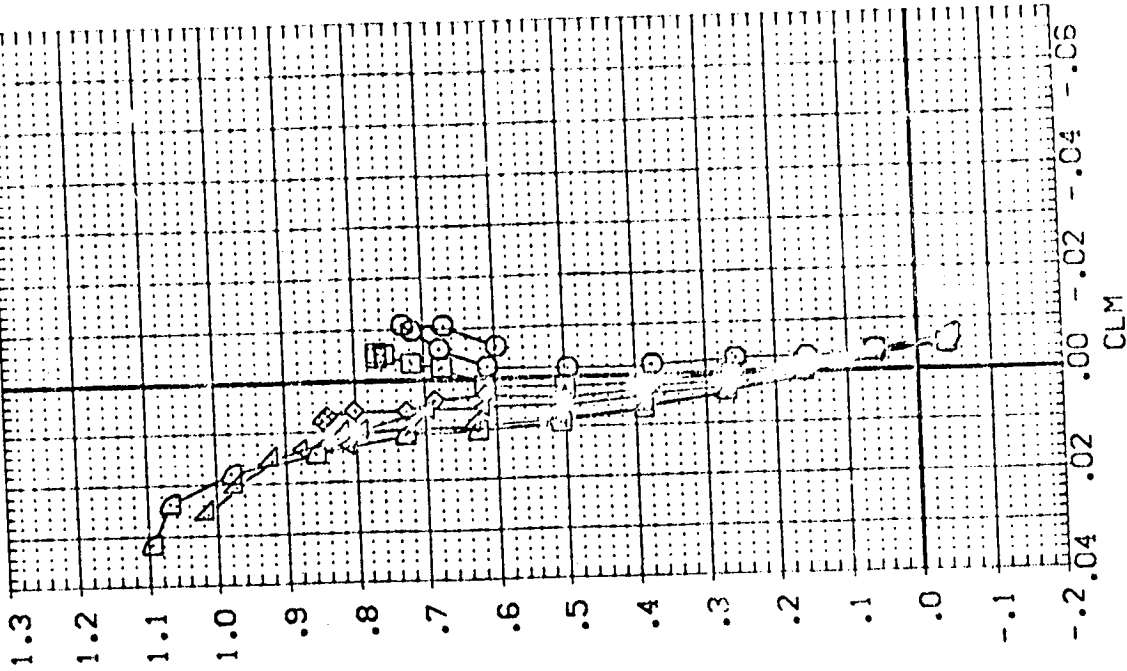
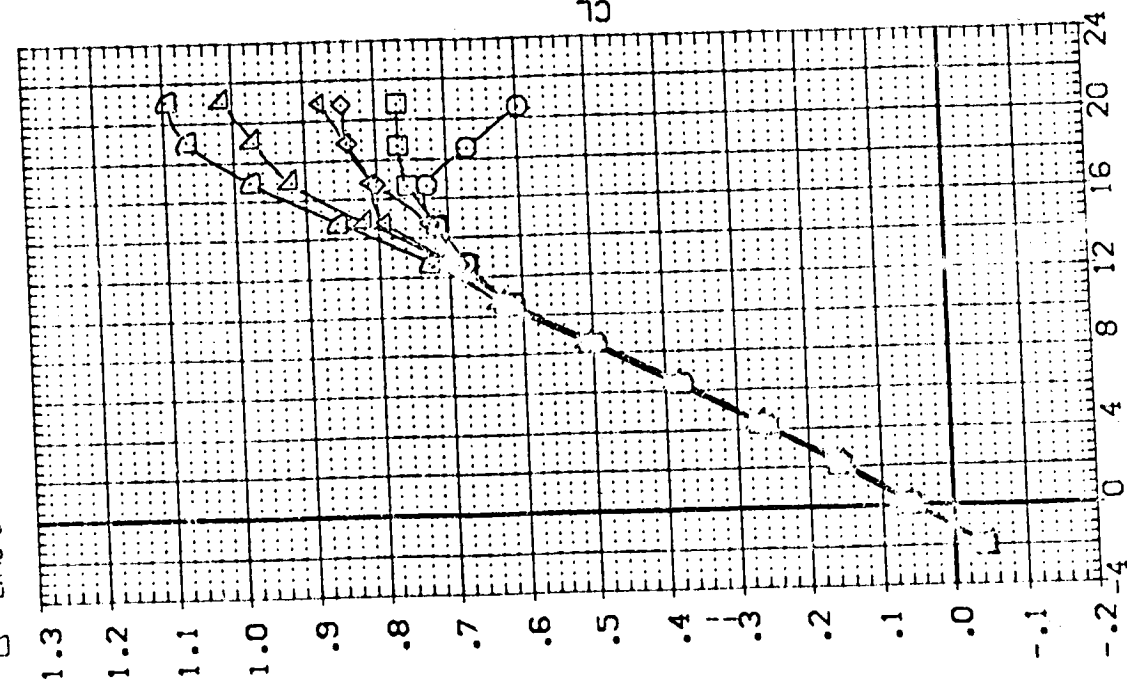

$$C_{EJ}MACH = 1.20$$

DATA SET SYMBOL
 (RP5016)
 (RP5018)
 (RP5019)
 (RP5020)
 (RP5021)
 (RP5022)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LG-100 CR3:TER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR3:TER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR3:TER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR3:TER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR3:TER(SH)PS (BV3VFB)
 LARC 8-FT TPT 644 LG-100 CR3:TER(SH)PS (BV3VFB)

(BV3VFB)
 (BV3VFB)
 (BV3VFB)
 (BV3VFB)
 (BV3VFB)
 (BV3VFB)

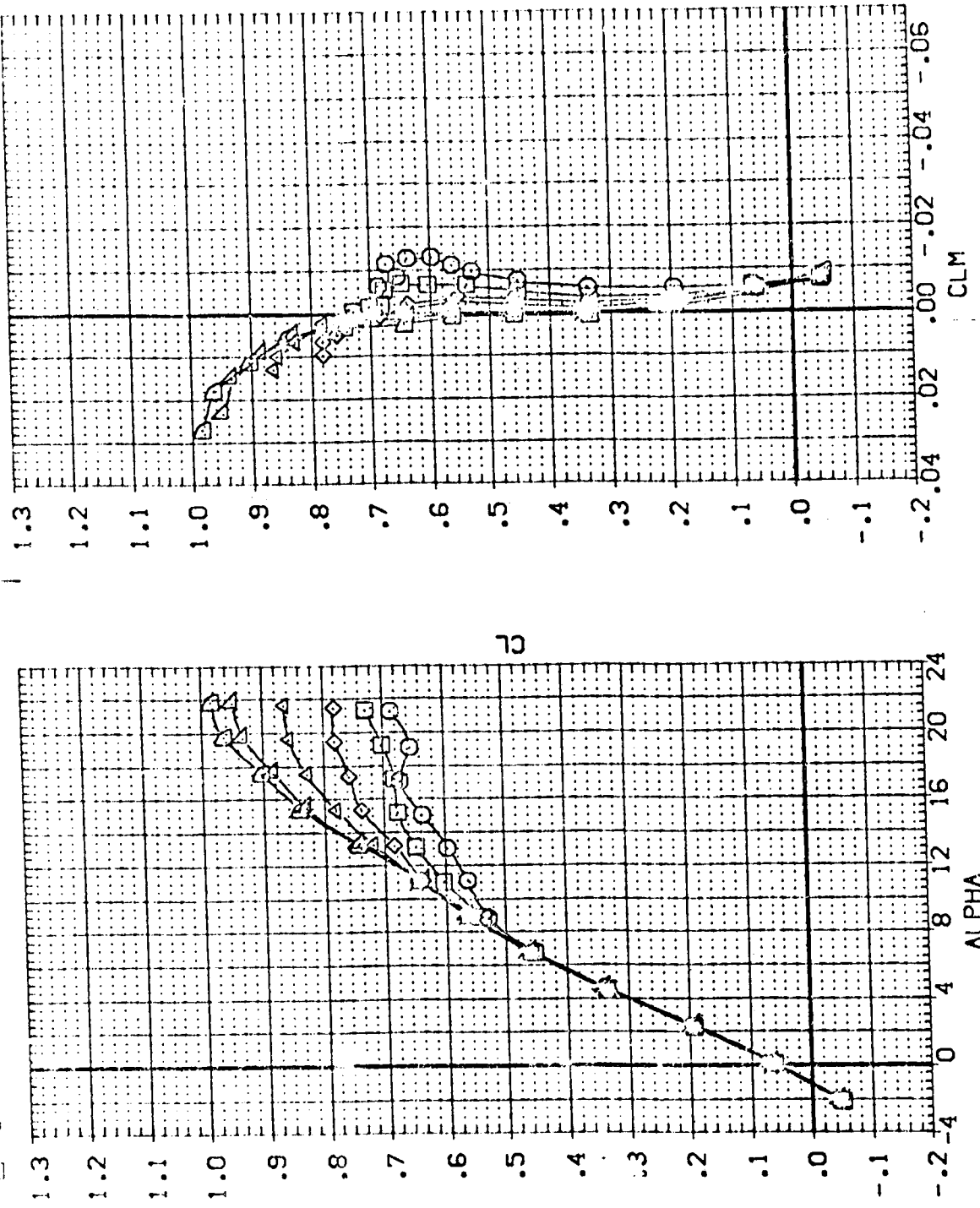
LAMDAF 35.000
 55.000
 65.000
 70.000
 75.000
 78.000
 VINGO 3.000
 3.000
 3.000
 3.000
 3.000
 3.000
 RUOFLR .000
 .000
 .000
 .000
 .000
 .000
 BOFLAP .000
 .000
 .000
 .000
 .000
 .000
 REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5100
 BREF 20.5056
 YARP 16.8833
 XARP .0000
 ZARP .0000
 SCALE .0188



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(AJMACH = .35

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	ROFLR	EOFLR	REFERENCE INFORMATION
(000001)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)	35.000	3.000	.000	.000	SPREF
(000002)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)	55.000	3.000	.000	.000	LPREF
(000003)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)	65.000	3.000	.000	.000	SPREF
(000004)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)	70.000	3.000	.000	.000	LPREF
(000005)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)	75.000	3.000	.000	.000	SPREF
(000006)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)	78.000	3.000	.000	.000	LPREF
(000007)	LARC 8-ET TPT 644 LO-100 CR3TER(S) (PS)					SCALE



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)
 (B)MACH = .80

DATA SET SYMBOLS
 (RPS016)
 (RPS018)
 (RPS019)
 (RPS020)
 (RPS021)
 (RPS022)

CONFIGURATION DESCRIPTION

LARC 8-ET TPT 644 LG-100 CRB11TER(SHIPS) (BV3VFB)
 LARC 8-ET TPT 644 LG-100 CRB11TER(SHIPS) (BV3VFB)
 LARC 8-ET TPT 644 LG-100 CRB11TER(SHIPS) (BV3VFB)
 LARC 8-ET TPT 644 LG-100 CRB11TER(SHIPS) (BV3VFB)
 LARC 8-ET TPT 644 LG-100 CRB11TER(SHIPS) (BV3VFB)
 LARC 8-ET TPT 644 LG-100 CRB11TER(SHIPS) (BV3VFB)

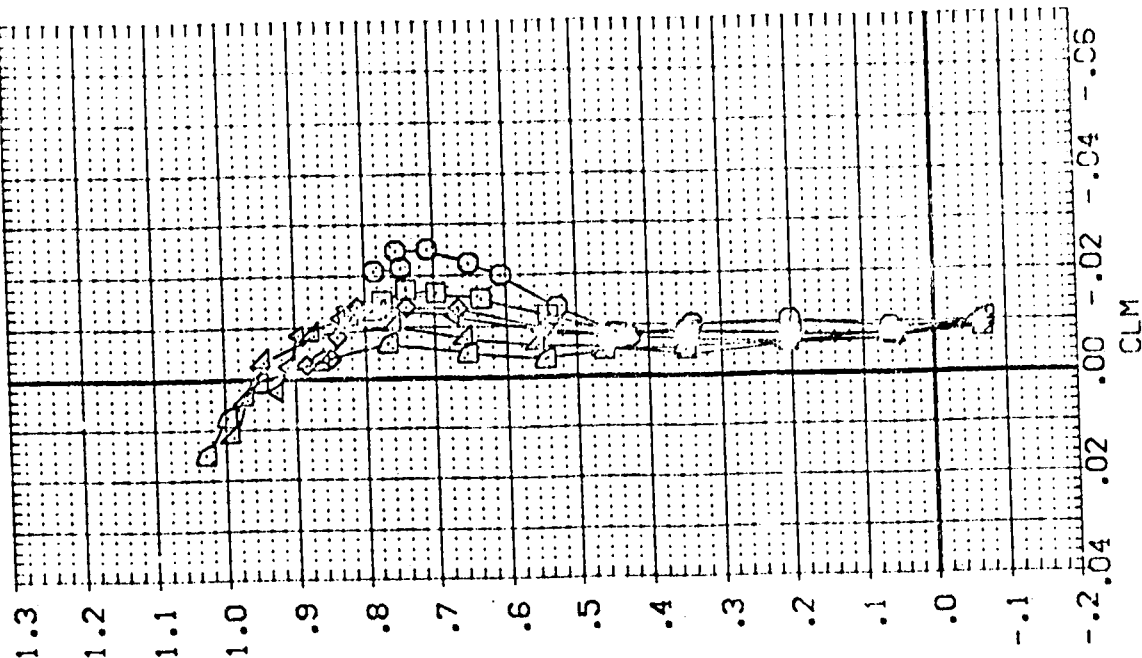
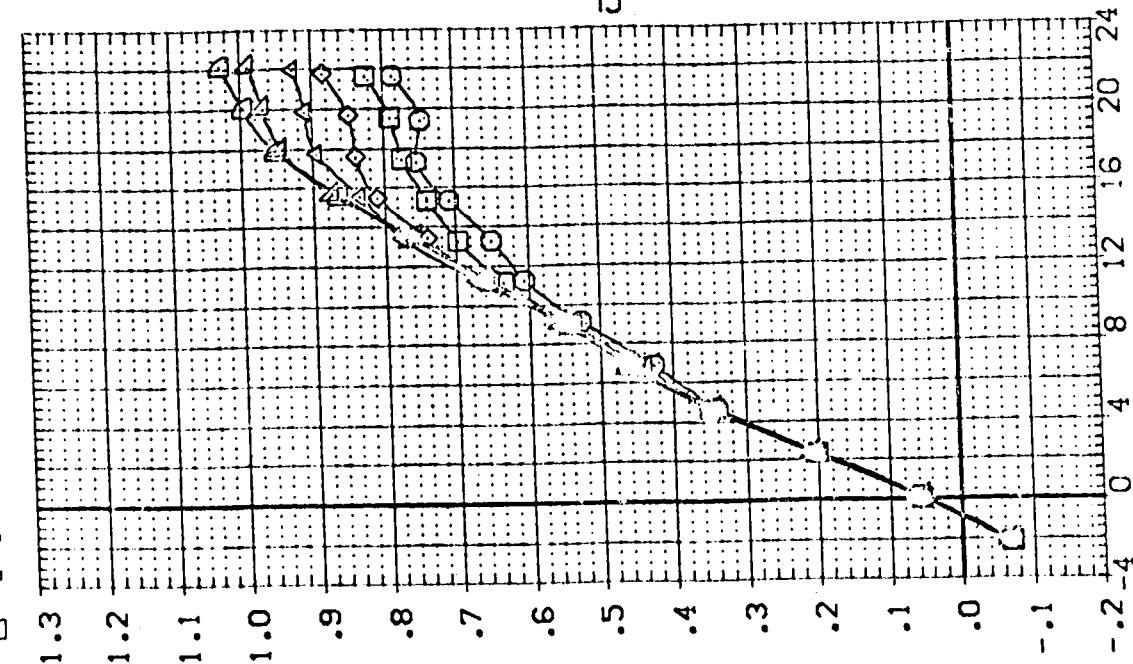
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 55.000
 65.000
 70.000
 75.000
 78.000

VINGNO 3.000
 3.000
 3.000
 3.000
 3.000
 3.000

RUDFLR .000
 .000
 .000
 .000
 .000
 .000

BOFLAP .000
 .000
 .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 173.1312
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 EREF 20.9085
 XREF 16.8533
 YMRP .0000
 ZMRP .0000
 SCALE .0189



ALPHA

CLM

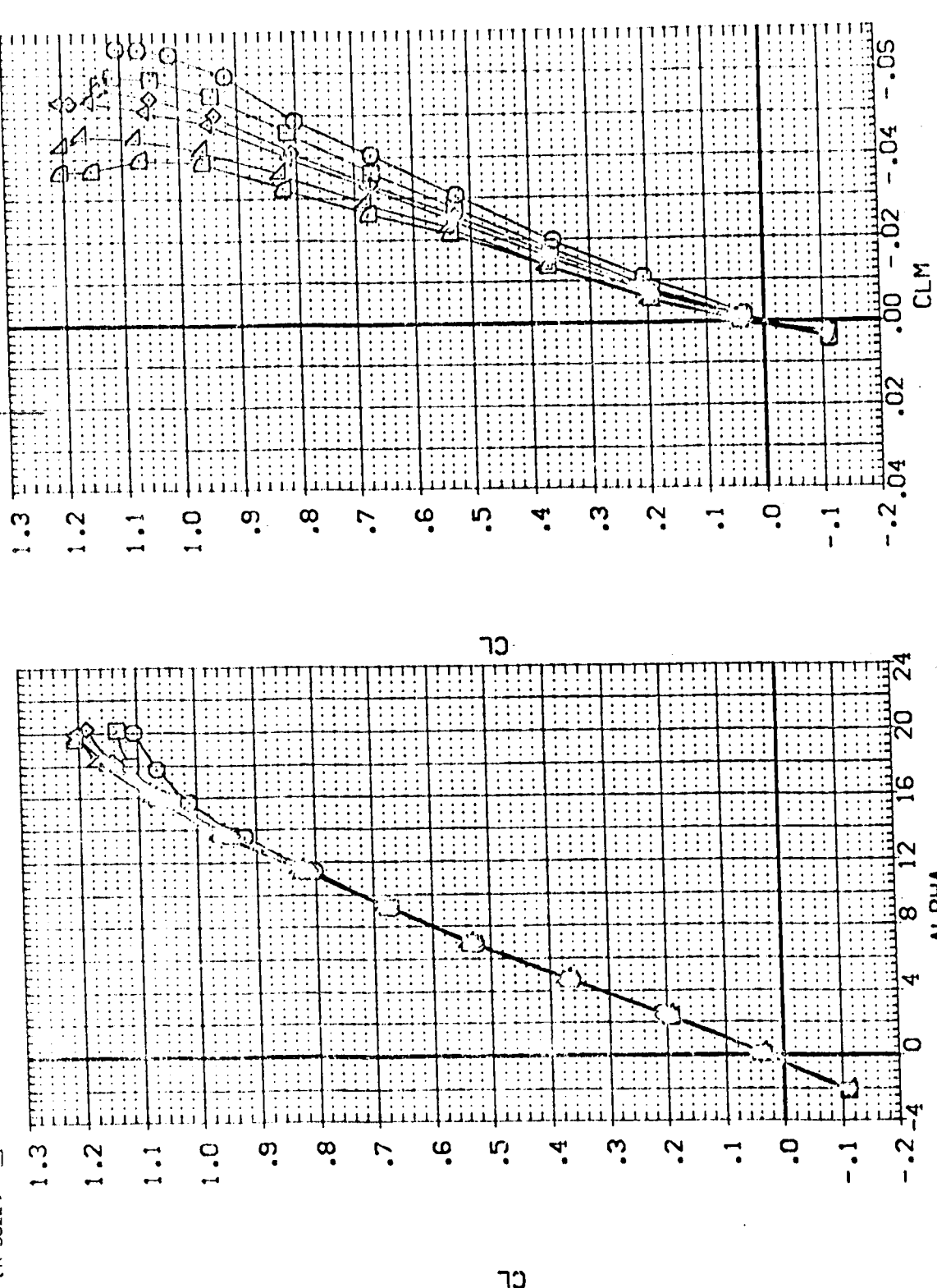
EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(C)MACH = .90

DATA SET SYMBOL: (RSC015) (RSC016) (RSC017) (RSC018) (RSC019) (RSC020) (RSC021) (RSC022)

CONFIGURATION DESCRIPTION: LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB) LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB) LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB) LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB) LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB) LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB) LARC 8-F 7- 544 LC-100 CRBITER(SHIP) (BV3VFB)

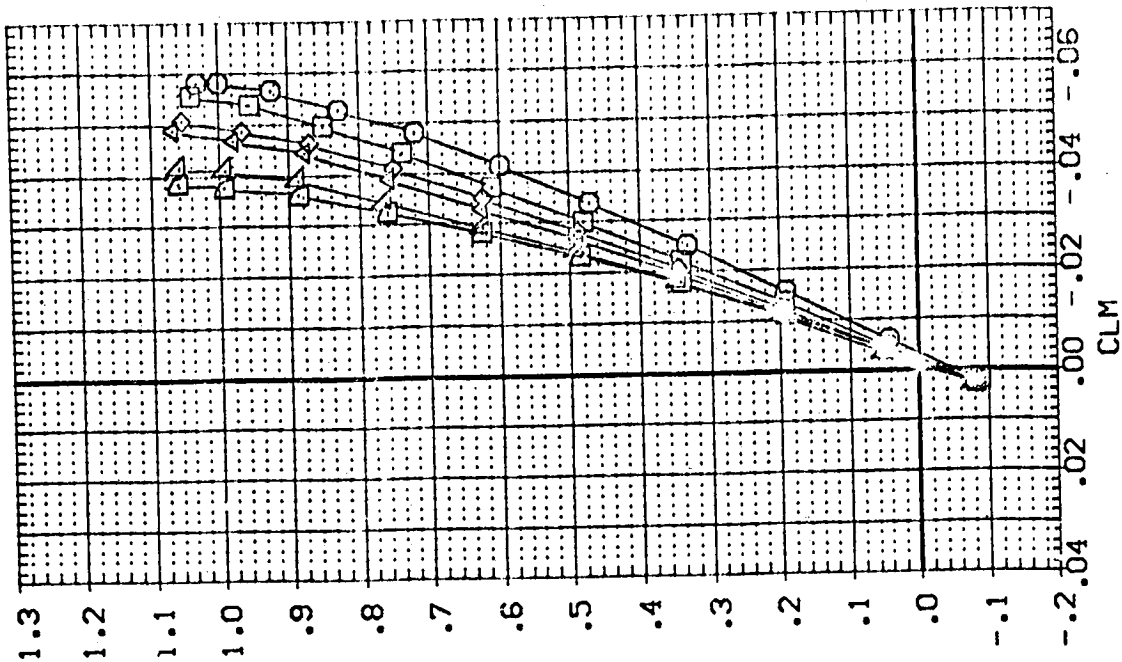
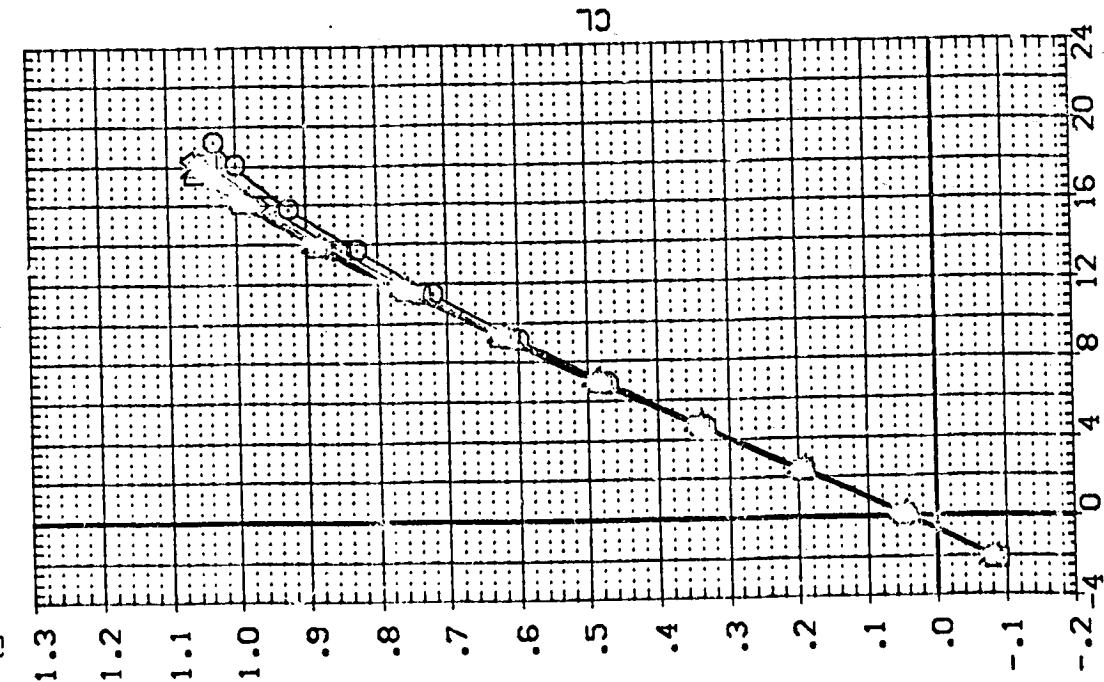
PARAMETER VALUES: LAMDAF 35.000 55.000 65.000 70.000 75.000 78.000 V'NGND 3.000 3.000 3.000 3.000 3.000 3.000 RUDLR .000 .000 .000 .000 .000 .000 BOFLAP .000 .000 .000 .000 .000 .000 REFERENCE INFORMATION: SREF 173.1312 LREF 25.5100 SREF 25.5100 XREF 15.8000 YREF .0000 ZREF .0000 SCALE 1.0000



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)
 (DJMACH = .98)



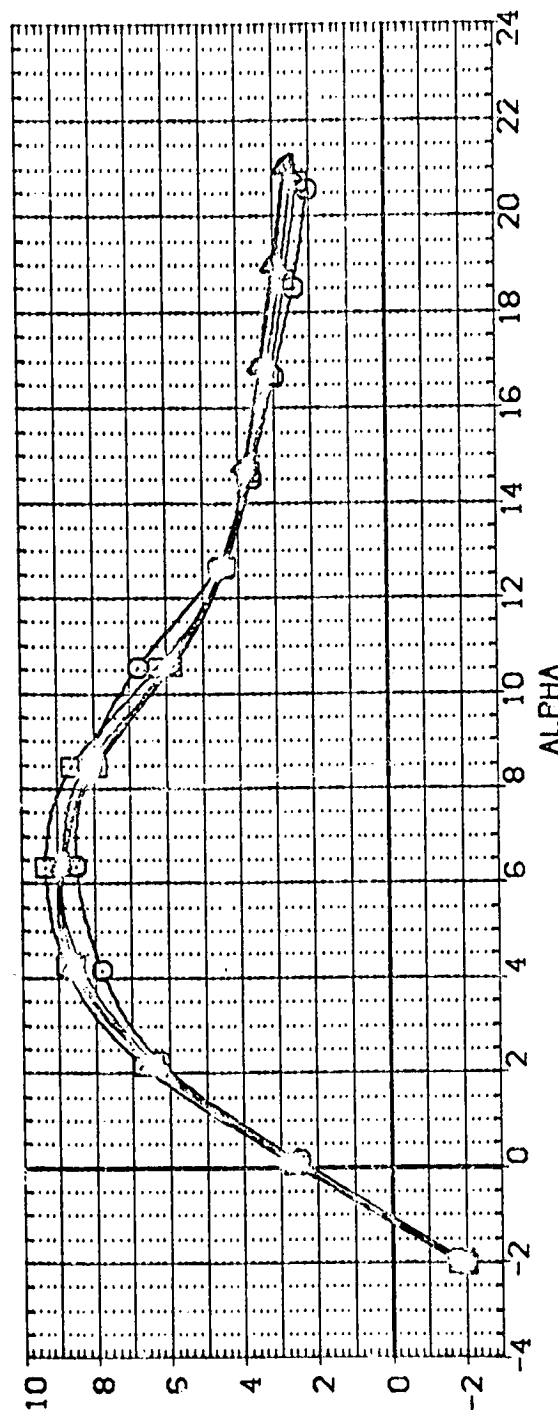
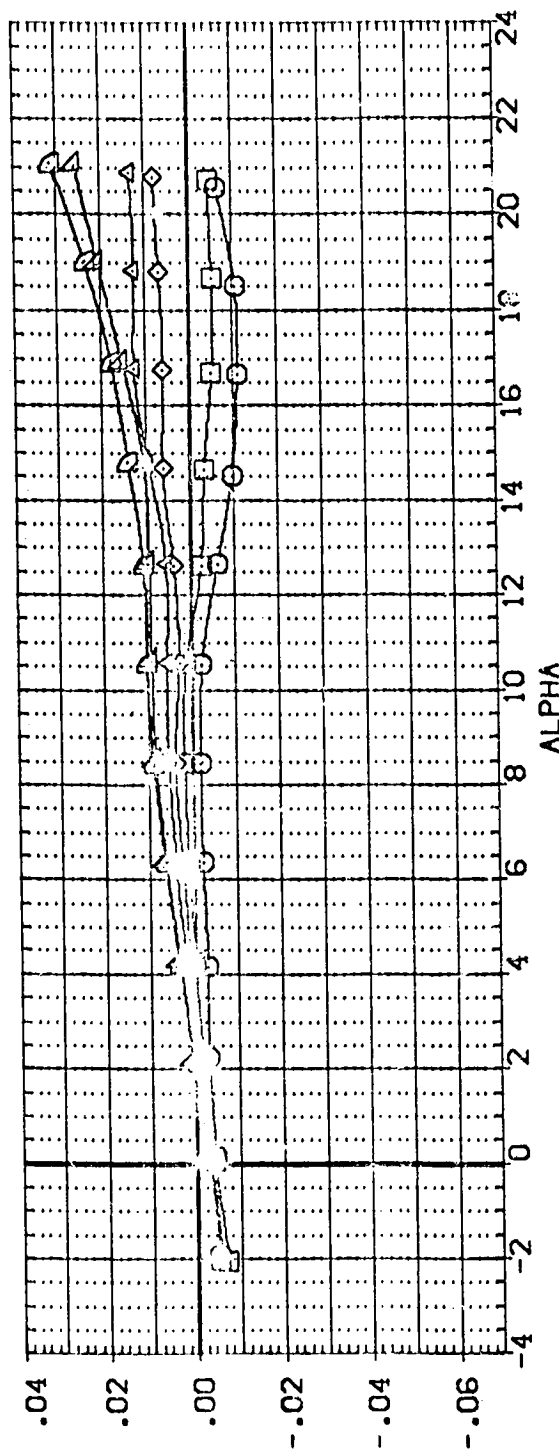
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGND	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5016)	LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SQ.IN.
(RP5018)	LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RP5019)	LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	SREF 20.9055 INCHES
(RP5020)	LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XVREF 16.8633 INCHES
(RP5021)	LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YVREF .0000 INCHES
(RP5022)	LARC 8-FT TPT 644 LG-100 CR811TER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	ZVREF .0188 INCHES
						SCALE



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(CLMACH = 1.20)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUESLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIP)	35.000	3.000	.000	.000	173.1312 SQ. IN.
(RPS018)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIP)	55.000	3.000	.000	.000	25.5100 INCHES
(RPS019)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIP)	65.000	3.000	.000	.000	20.8633 INCHES
(RPS020)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIP)	70.000	3.000	.000	.000	.0000 INCHES
(RPS021)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIP)	75.000	3.000	.000	.000	.0000 INCHES
(RPS022)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIP)	78.000	3.000	.000	.000	.0188 SCALE

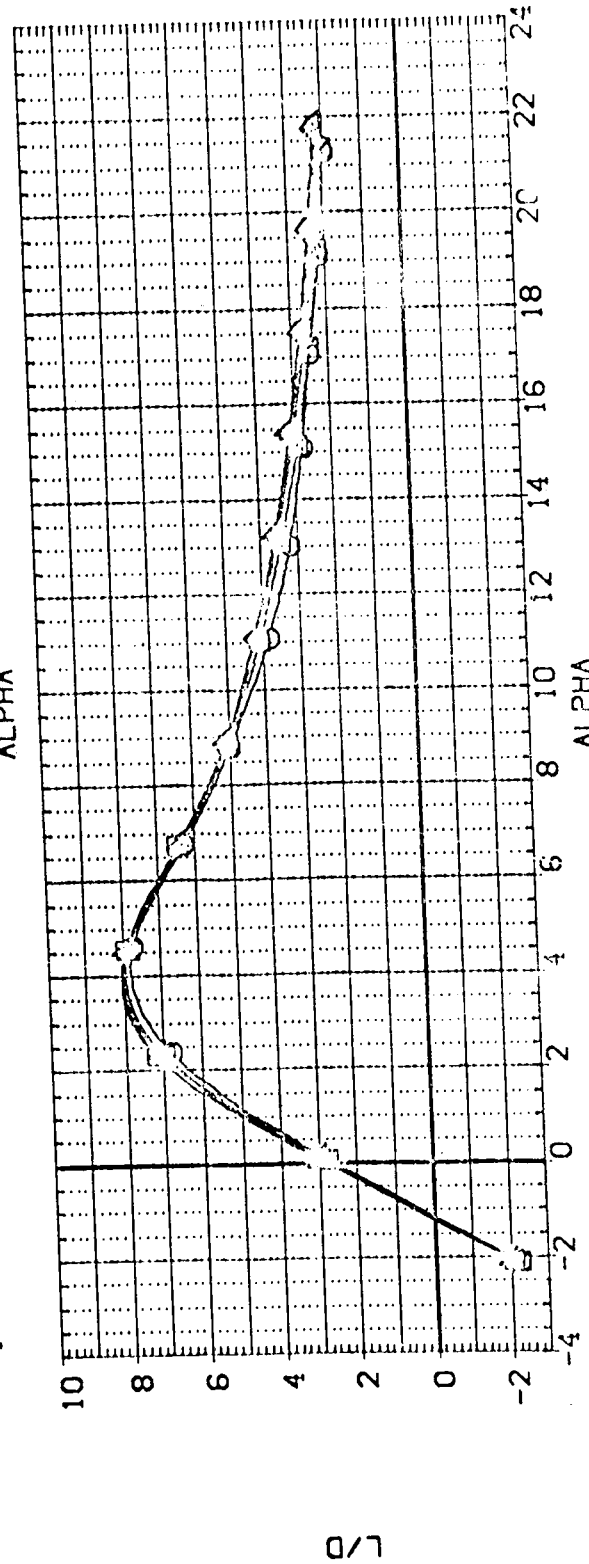
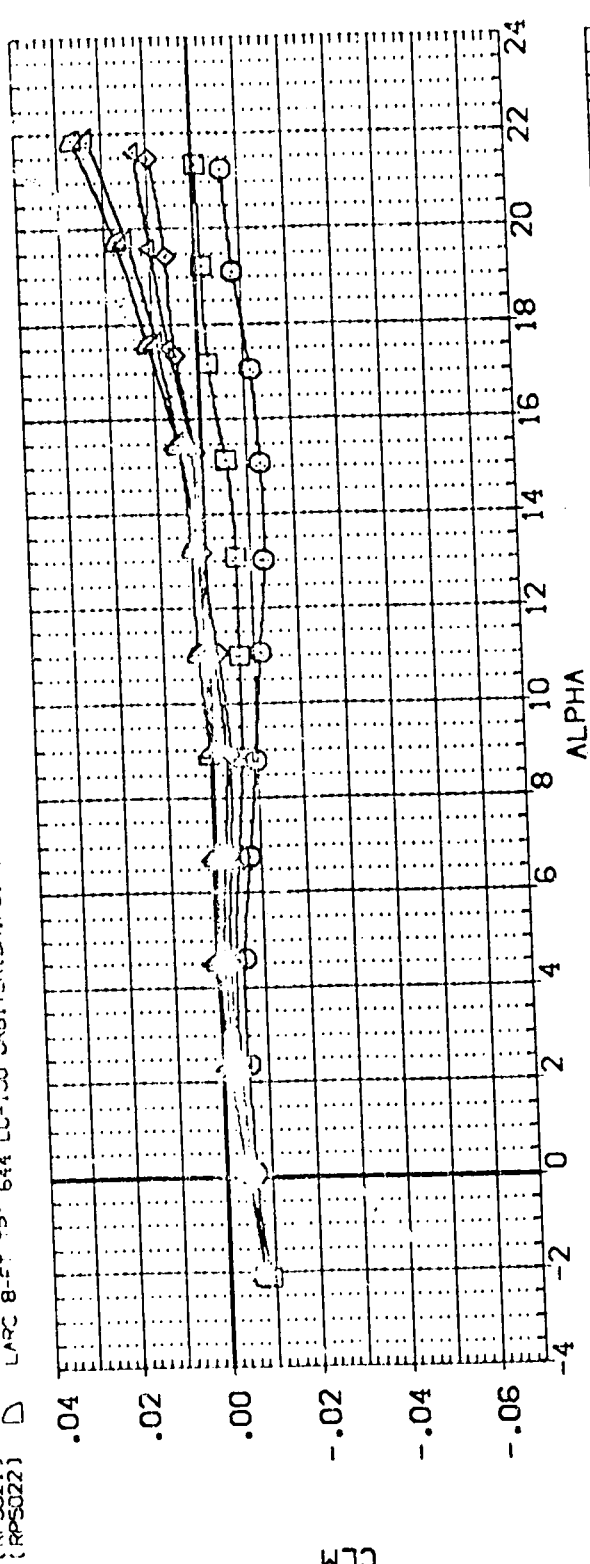


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(A)MACH = .35



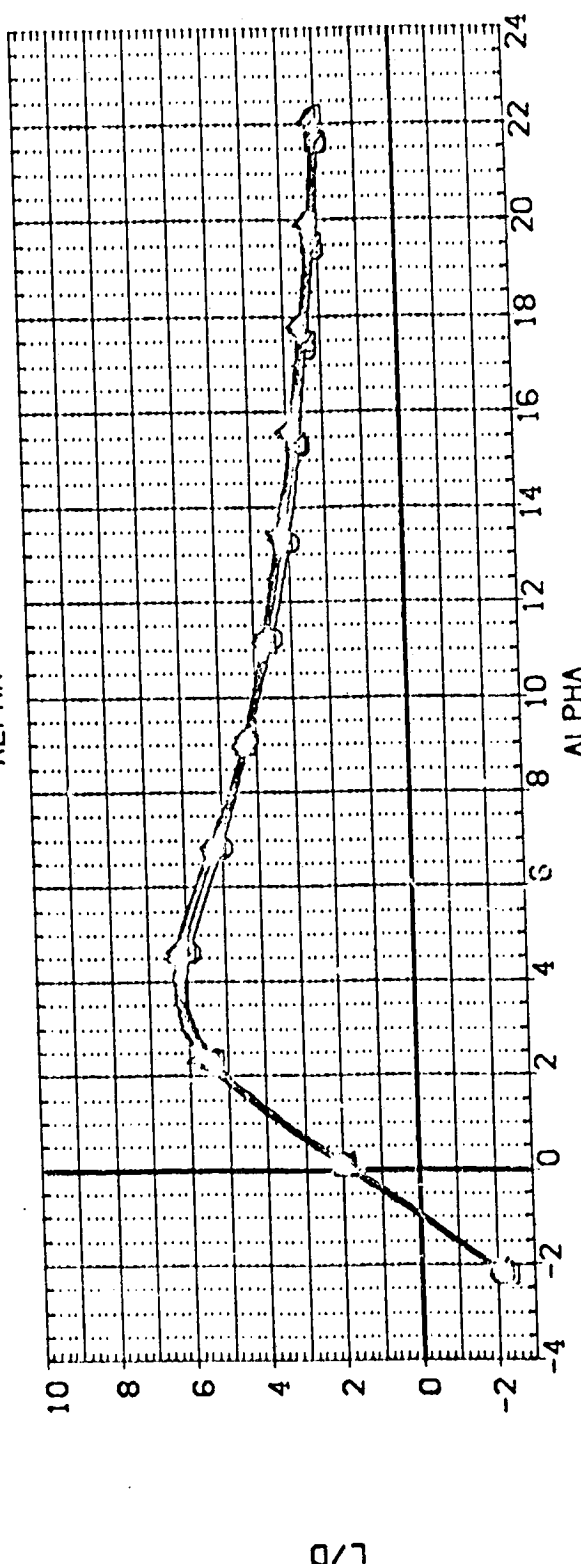
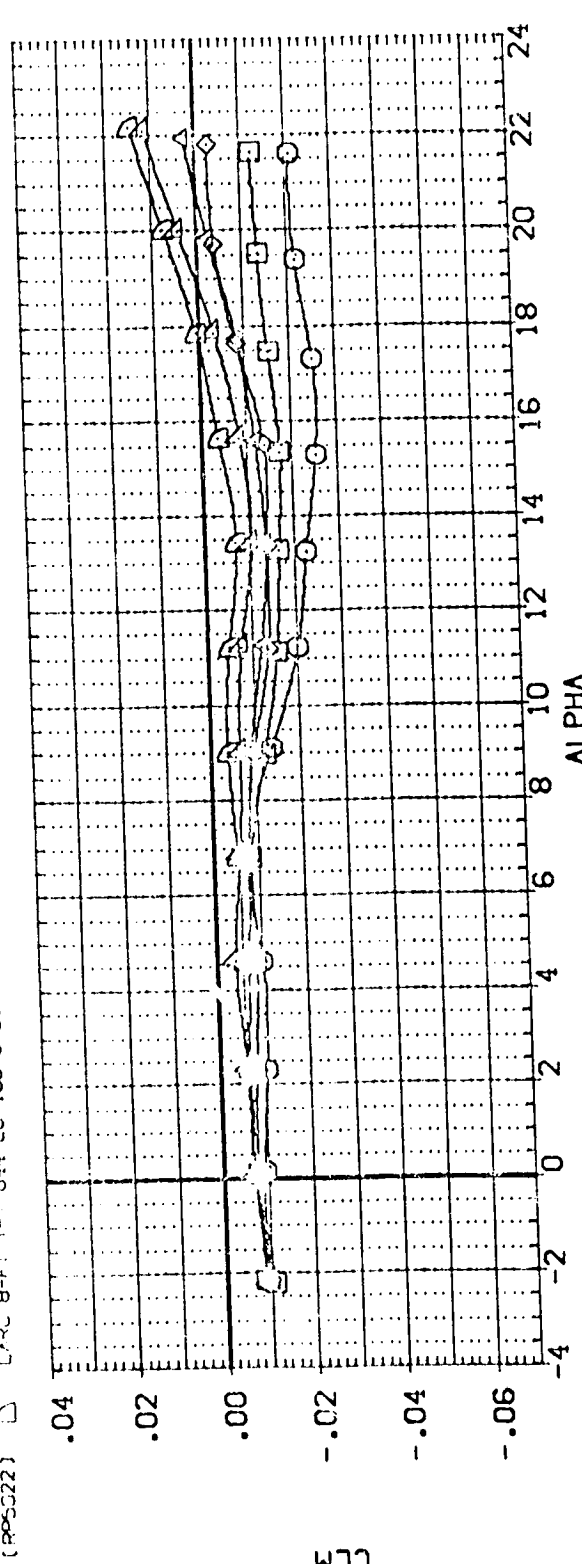
DATA SET SYMBL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUEFLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 544 LC-100 CRBITER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	173.1312
(RPS018)	LARC 8-FT TPT 544 LC-100 CRBITER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	25.5100
(RPS019)	LARC 8-FT TPT 544 LC-100 CRBITER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	23.8000
(RPS020)	LARC 8-FT TPT 544 LC-100 CRBITER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	16.8533
(RPS021)	LARC 8-FT TPT 544 LC-100 CRBITER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	.0000
(RPS022)	LARC 8-FT TPT 544 LC-100 CRBITER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	.0000
						SCALE
						0.88



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUDFLR	SOFLAP	REFERENCE INFORMATION
[R05015]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	179.1312
[R05016]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	20.5100
[R05017]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	20.5100
[R05018]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	20.5100
[R05019]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	20.5100
[R05020]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)	78.000	3.000	.000	.000	20.5100
[R05021]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)					20.5100
[R05022]	ARC 8-F1 TPT 644 LC-100 C58 TER(SHIPS) (BV3VFB)					20.5100

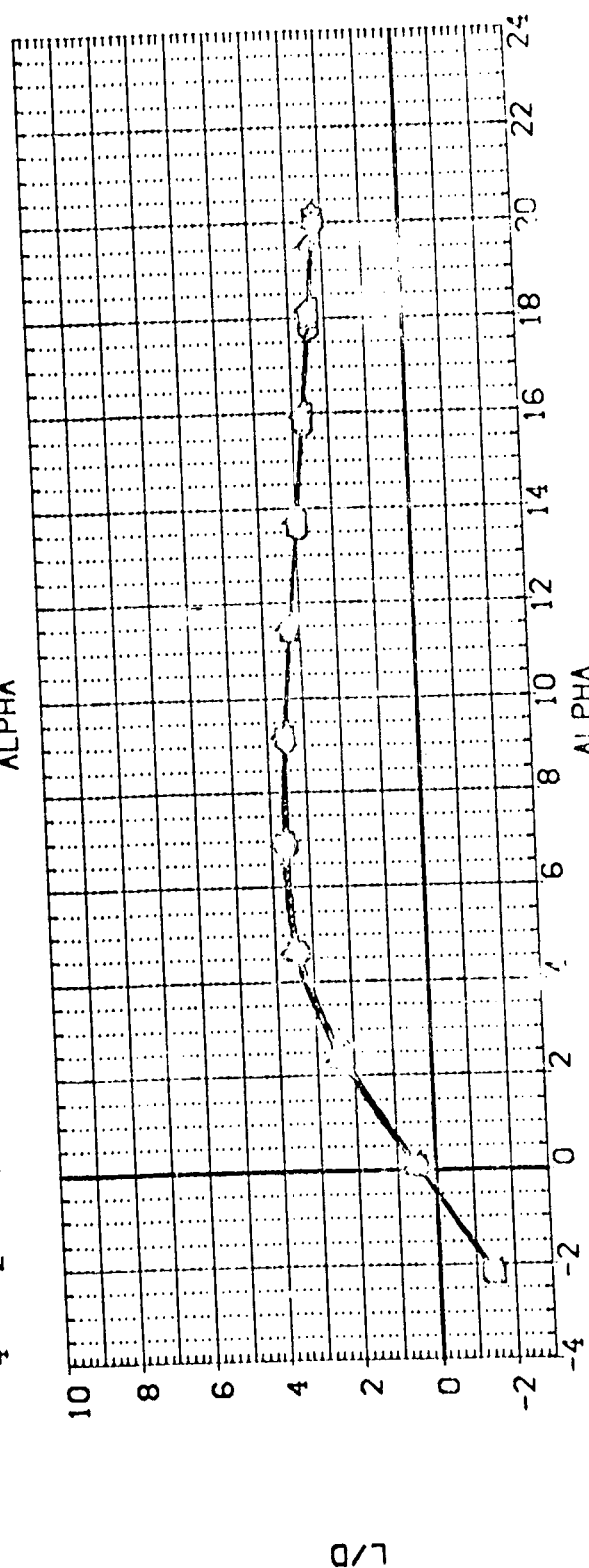
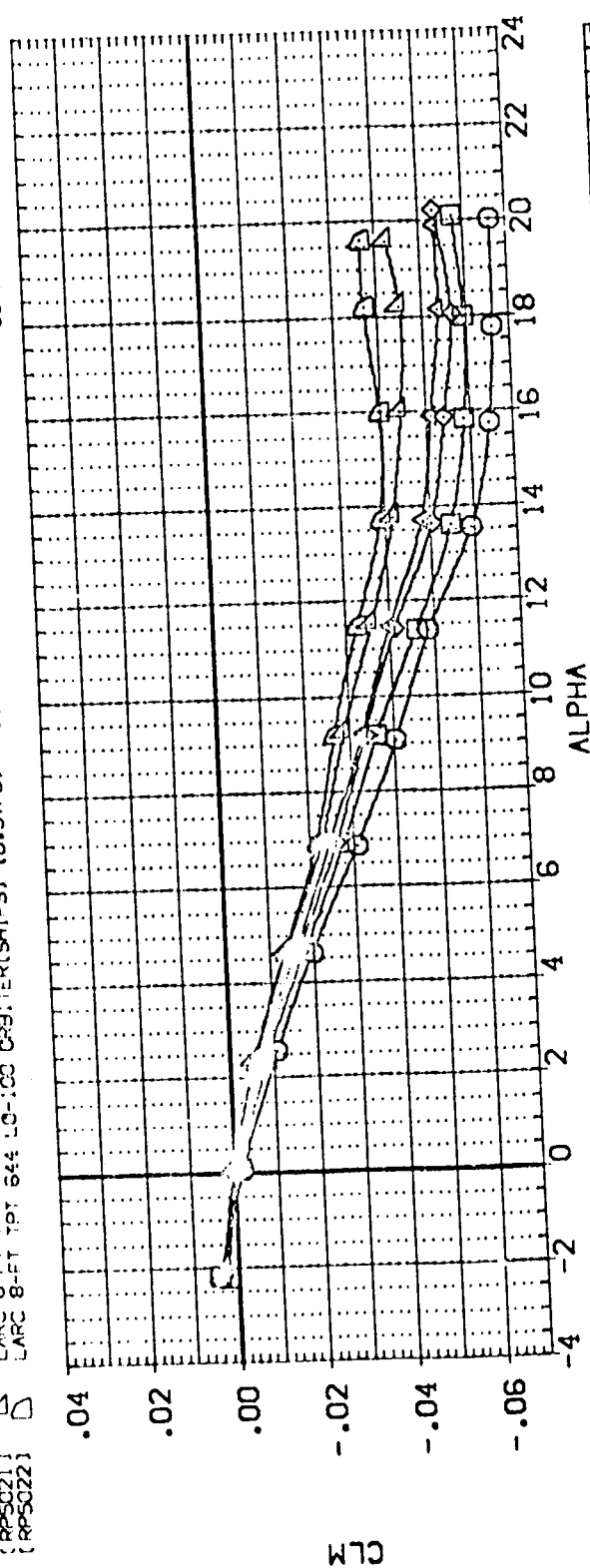


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(C)MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LG-100 CR3:TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312 SC-IN
(RPS019)	LARC 8-FT TPT 644 LG-100 CR3:TER(SHIPS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 INCHES
(RPS020)	LARC 8-FT TPT 644 LG-100 CR3:TER(SHIPS) (BV3VFB)	65.000	3.000	.000	.000	BREF 20.8005 INCHES
(RPS021)	LARC 8-FT TPT 644 LG-100 CR3:TER(SHIPS) (BV3VFB)	70.000	3.000	.000	.000	XREF 16.8033 INCHES
(RPS022)	LARC 8-FT TPT 644 LG-100 CR3:TER(SHIPS) (BV3VFB)	75.000	3.000	.000	.000	YREF .0000 INCHES
		78.000	3.000	.000	.000	ZREF .0188 SCALE

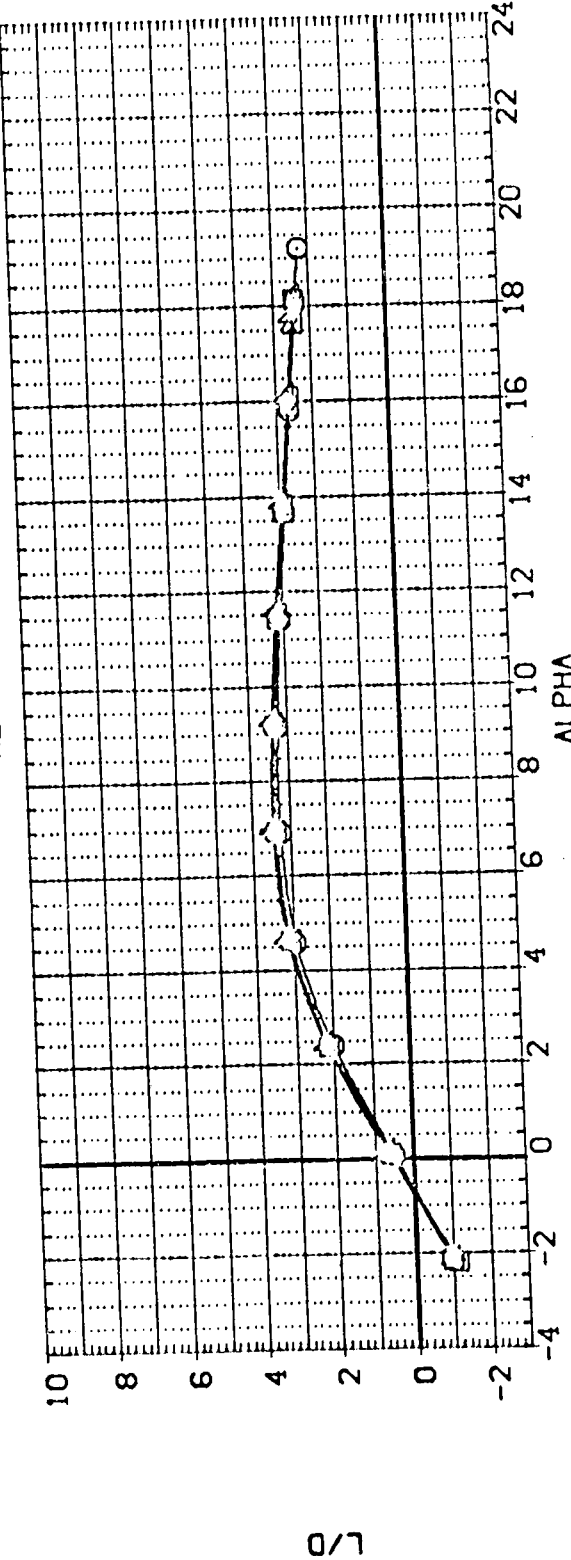
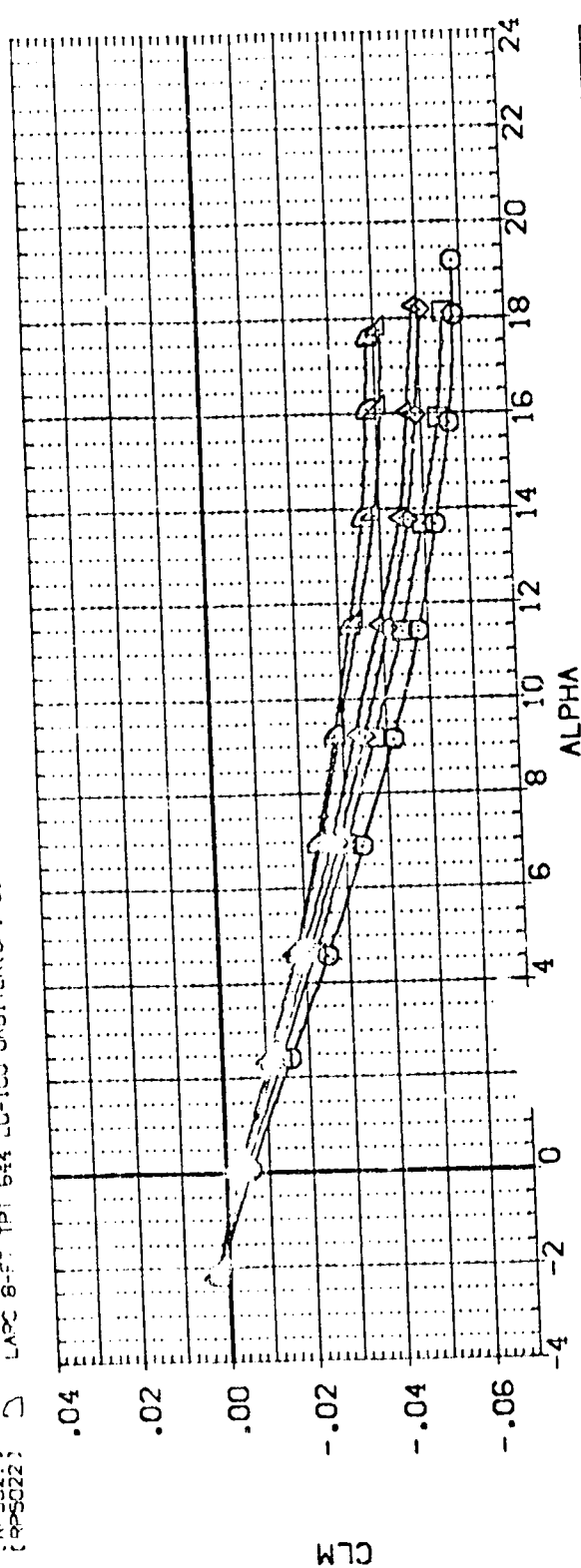


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

DATA SET SYMBOL: [R5016] [R5018] [R5019] [R5020] [R5021] [R5022]

CONFIGURATION DESCRIPTION:
 LAC B-ET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LAC B-ET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LAC B-ET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LAC B-ET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LAC B-ET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)
 LAC B-ET TPT 644 LC-100 CRBITER(SH)PS (BV3VFB)

REFERENCE INFORMATION:
 SREF 173.1312
 LREF 23.5000
 BREF 23.5000
 XREF 16.0000
 YREF 16.0000
 ZREF 16.0000
 SCALE 0.0000

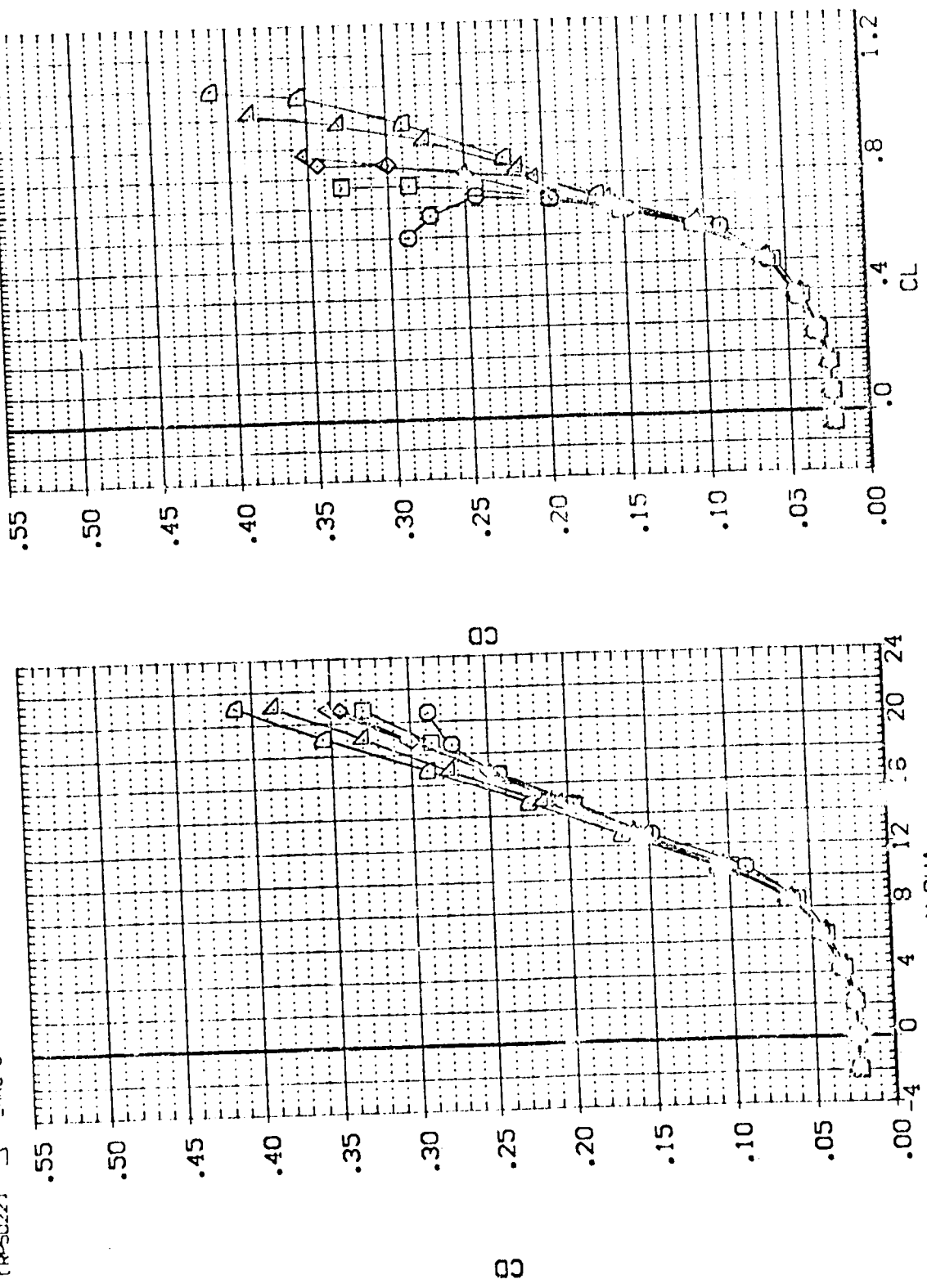


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(E)MACH = 1.20

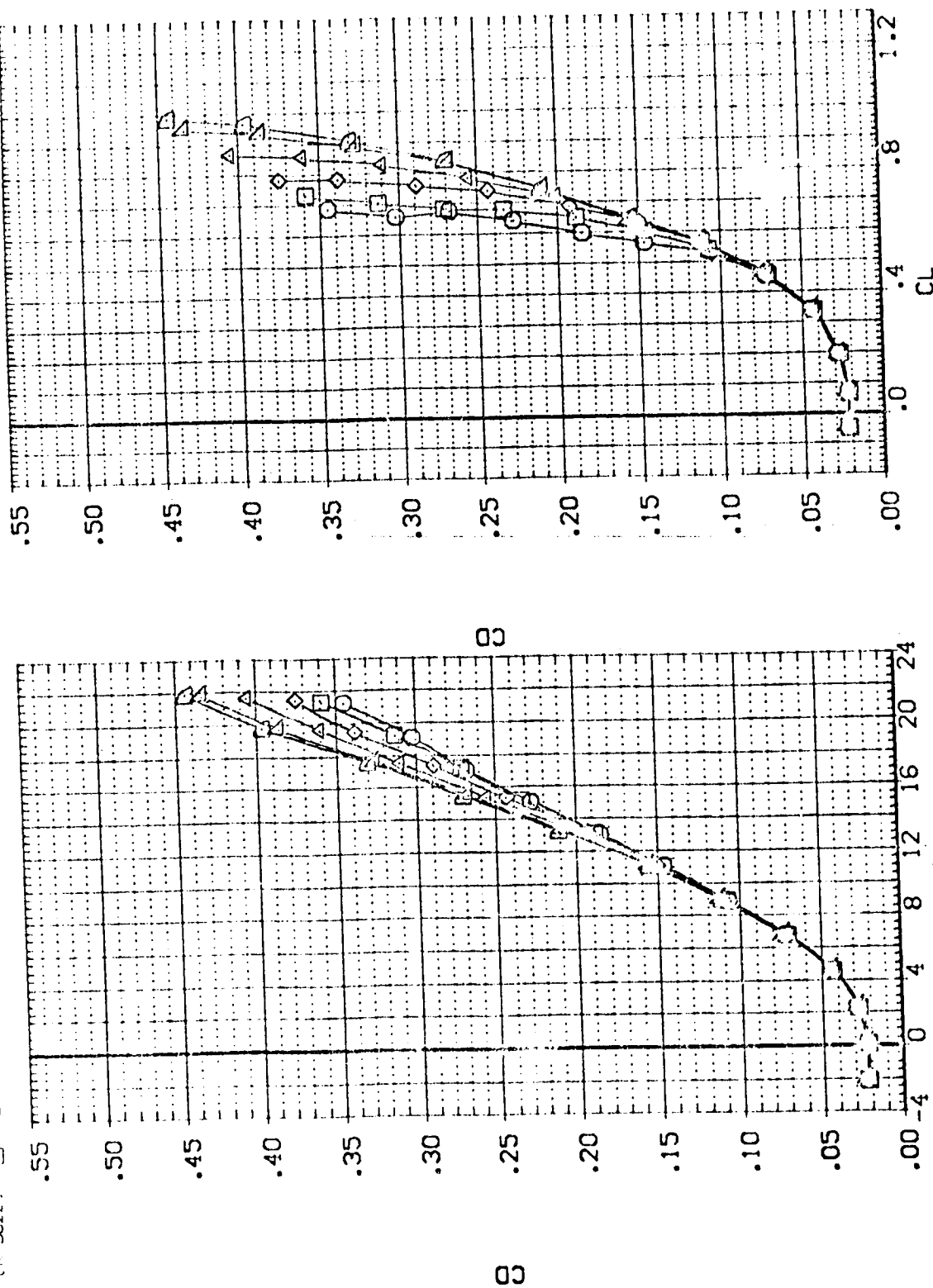


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINX0	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RPSQ16)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312
(RPSQ19)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	LRREF 25.5100
(RPSQ19)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	BRREF 20.8033
(RPSQ20)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	70.000	3.000	.000	.000	XREF 16.0000
(RPSQ21)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	75.000	3.000	.000	.000	YREF .0000
(RPSQ22)	LARC 8-FT TPT 644 LG-100 CR8ITER(SH)PS (BV3VFB)	78.000	3.000	.000	.000	ZREF .0000
						SCALE 0.189



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

(M)MACH = .35

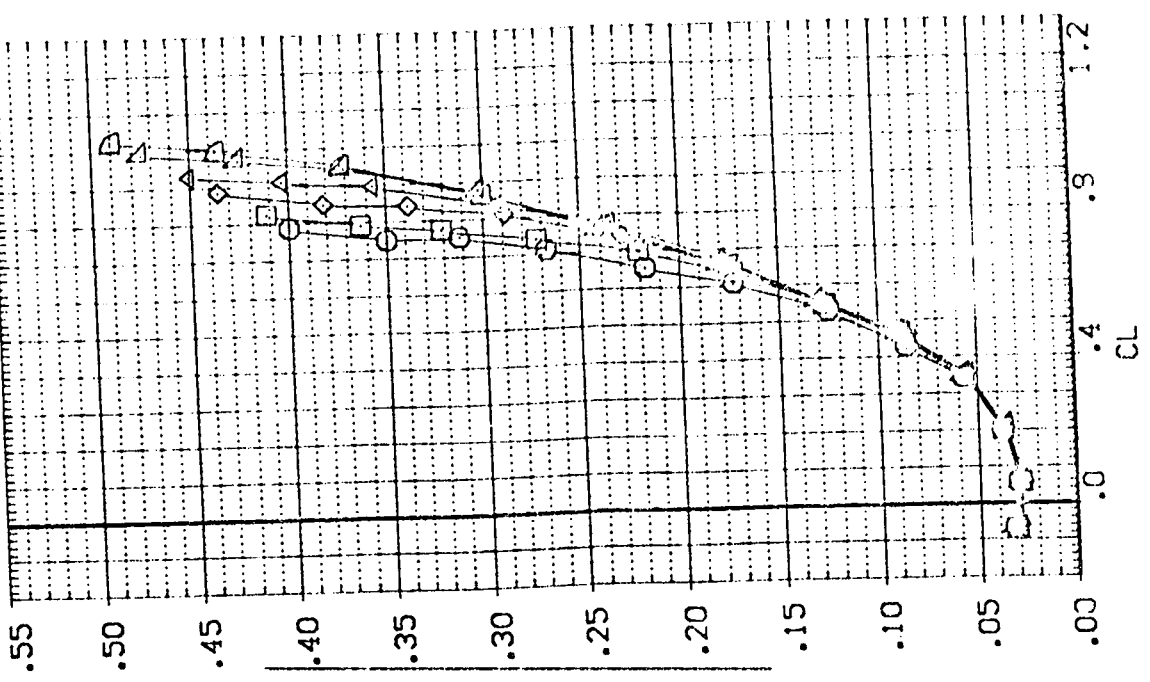
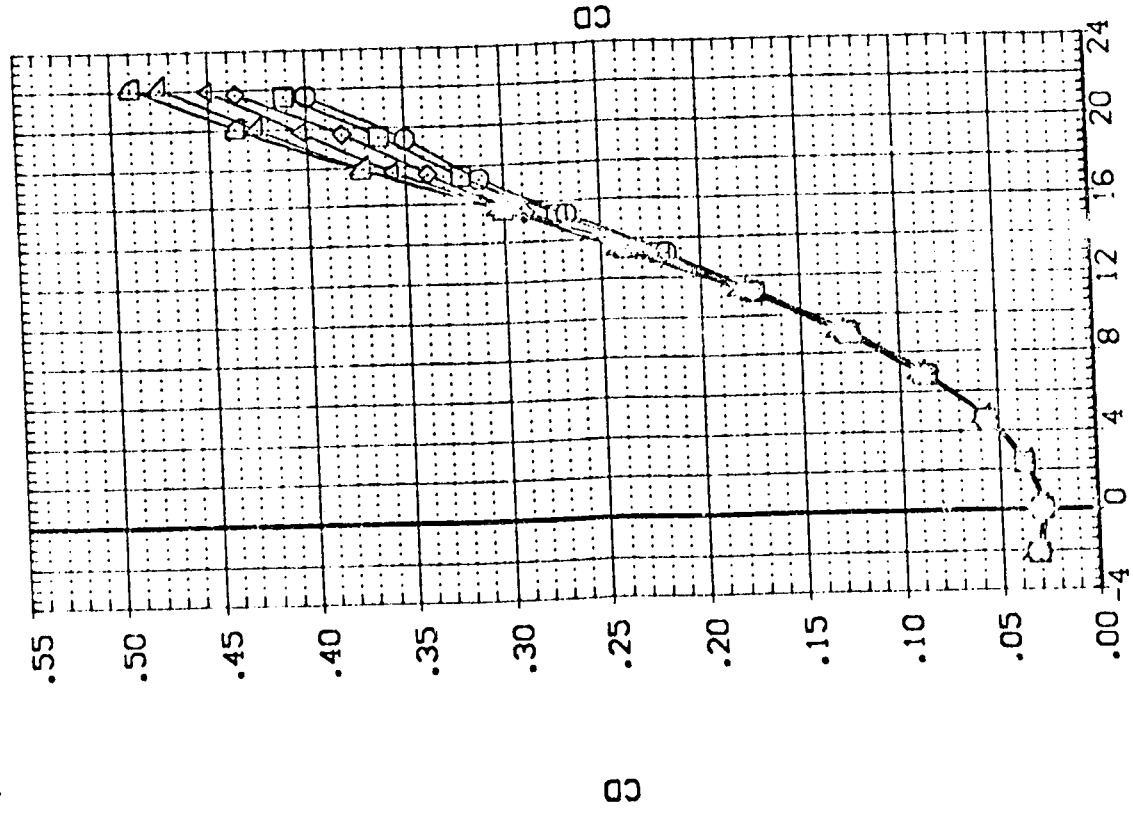
[illegible]

ALPHA
EFFECT OF EULIET ON MSC 049 WING (B W3 V FB)

(B) MACH = .80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	VINGW	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RPS016)	LARC 8-FT TPT 644 LG-100 CRB1TER(SH)PS) (BV3VFB)	25.000	3.000	.000	.000	SREF 173.1312 SC.IN.
(RPS018)	LARC 8-FT TPT 644 LG-100 CRB1TER(SH)PS) (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5100 SC.IN.
(RPS019)	LARC 8-FT TPT 644 LG-100 CRB1TER(SH)PS) (BV3VFB)	63.000	3.000	.000	.000	BREF 23.5000 SC.IN.
(RPS020)	LARC 8-FT TPT 644 LG-100 CRB1TER(SH)PS) (BV3VFB)	70.000	3.000	.000	.000	XREF 16.8833 SC.IN.
(RPS021)	LARC 8-FT TPT 644 LG-100 CRB1TER(SH)PS) (BV3VFB)	75.000	3.000	.000	.000	YREF .0000 SC.IN.
(RPS022)	LARC 8-FT TPT 644 LG-100 CRB1TER(SH)PS) (BV3VFB)	78.000	3.000	.000	.000	ZREF .0000 SC.IN.
						SCALE .0158

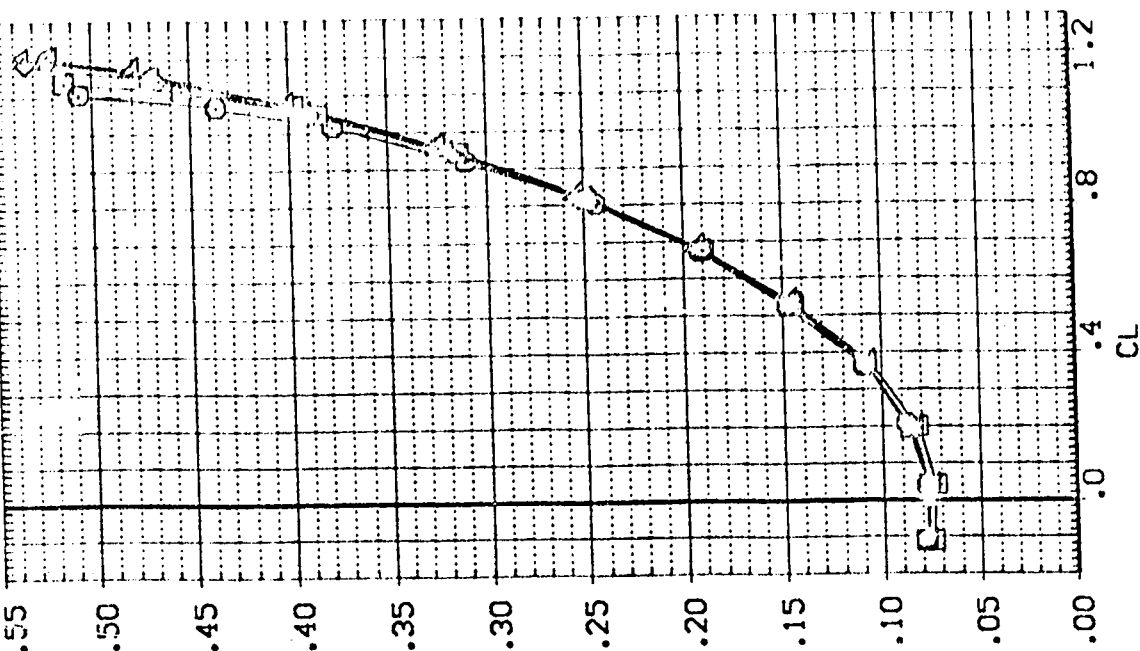
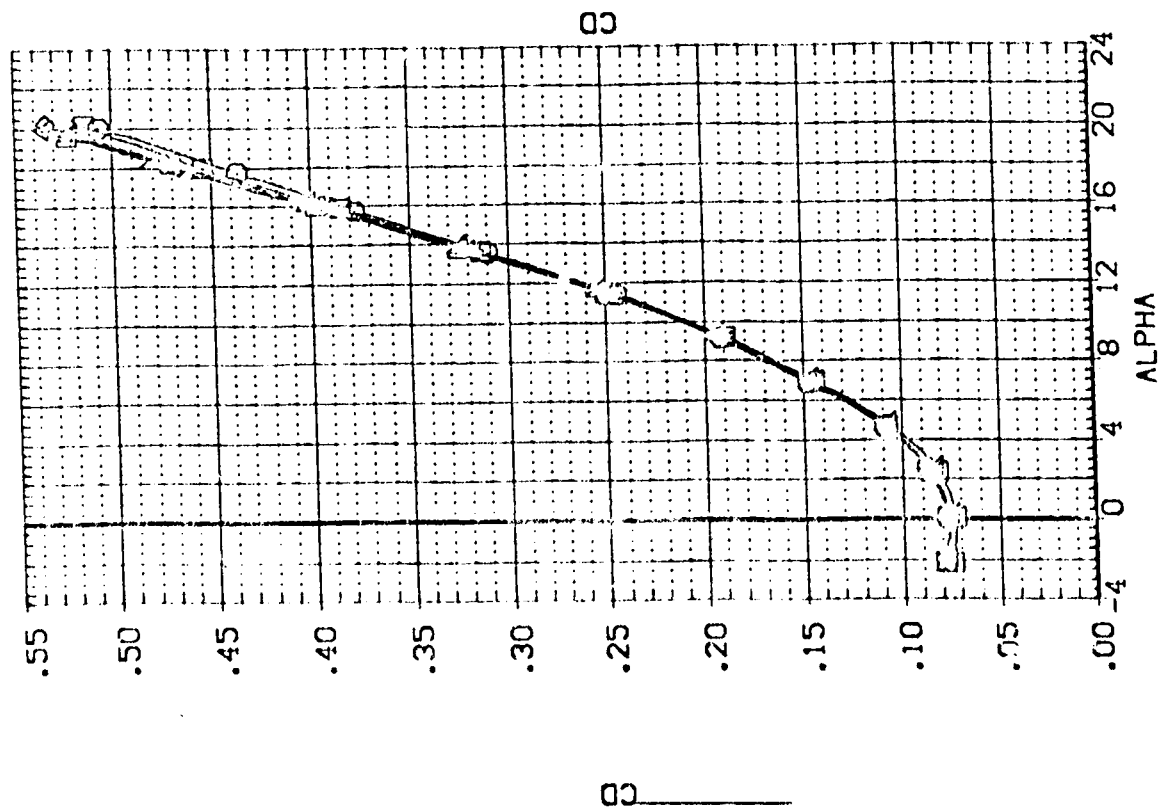


EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)
(CJMACH = .90

CONFIGURATION	DESCRIPTION
1A-C	8-ET TPT 644
1B-C	8-ET TPT 644
1C-C	8-ET TPT 644
1D-C	8-ET TPT 644
1E-C	8-ET TPT 644
1F-C	8-ET TPT 644
1G-C	8-ET TPT 644
1H-C	8-ET TPT 644
1I-C	8-ET TPT 644
1J-C	8-ET TPT 644
1K-C	8-ET TPT 644
1L-C	8-ET TPT 644
1M-C	8-ET TPT 644
1N-C	8-ET TPT 644
1O-C	8-ET TPT 644
1P-C	8-ET TPT 644
1Q-C	8-ET TPT 644
1R-C	8-ET TPT 644
1S-C	8-ET TPT 644
1T-C	8-ET TPT 644
1U-C	8-ET TPT 644
1V-C	8-ET TPT 644
1W-C	8-ET TPT 644
1X-C	8-ET TPT 644
1Y-C	8-ET TPT 644
1Z-C	8-ET TPT 644
1AA-C	8-ET TPT 644
1AB-C	8-ET TPT 644
1AC-C	8-ET TPT 644
1AD-C	8-ET TPT 644
1AE-C	8-ET TPT 644
1AF-C	8-ET TPT 644
1AG-C	8-ET TPT 644
1AH-C	8-ET TPT 644
1AI-C	8-ET TPT 644
1AJ-C	8-ET TPT 644
1AK-C	8-ET TPT 644
1AL-C	8-ET TPT 644
1AM-C	8-ET TPT 644
1AN-C	8-ET TPT 644
1AO-C	8-ET TPT 644
1AP-C	8-ET TPT 644
1AQ-C	8-ET TPT 644
1AR-C	8-ET TPT 644
1AS-C	8-ET TPT 644
1AT-C	8-ET TPT 644
1AU-C	8-ET TPT 644
1AV-C	8-ET TPT 644
1AW-C	8-ET TPT 644
1AX-C	8-ET TPT 644
1AY-C	8-ET TPT 644
1AZ-C	8-ET TPT 644
1BAA-C	8-ET TPT 644
1BAB-C	8-ET TPT 644
1BAC-C	8-ET TPT 644
1BAD-C	8-ET TPT 644
1BAE-C	8-ET TPT 644
1BAF-C	8-ET TPT 644
1BAG-C	8-ET TPT 644
1BAH-C	8-ET TPT 644
1BAI-C	8-ET TPT 644
1BAJ-C	8-ET TPT 644
1BAK-C	8-ET TPT 644
1BAL-C	8-ET TPT 644
1BAM-C	8-ET TPT 644
1BAN-C	8-ET TPT 644
1BAO-C	8-ET TPT 644
1BAP-C	8-ET TPT 644
1BAQ-C	8-ET TPT 644
1BAR-C	8-ET TPT 644
1BAS-C	8-ET TPT 644
1BAT-C	8-ET TPT 644
1BAU-C	8-ET TPT 644
1BAV-C	8-ET TPT 644
1BAW-C	8-ET TPT 644
1BAX-C	8-ET TPT 644
1BAY-C	8-ET TPT 644
1BAZ-C	8-ET TPT 644
1BBB-C	8-ET TPT 644
1BBB	8-ET TPT 644

[illegible]

REFERENCE INFORMATION

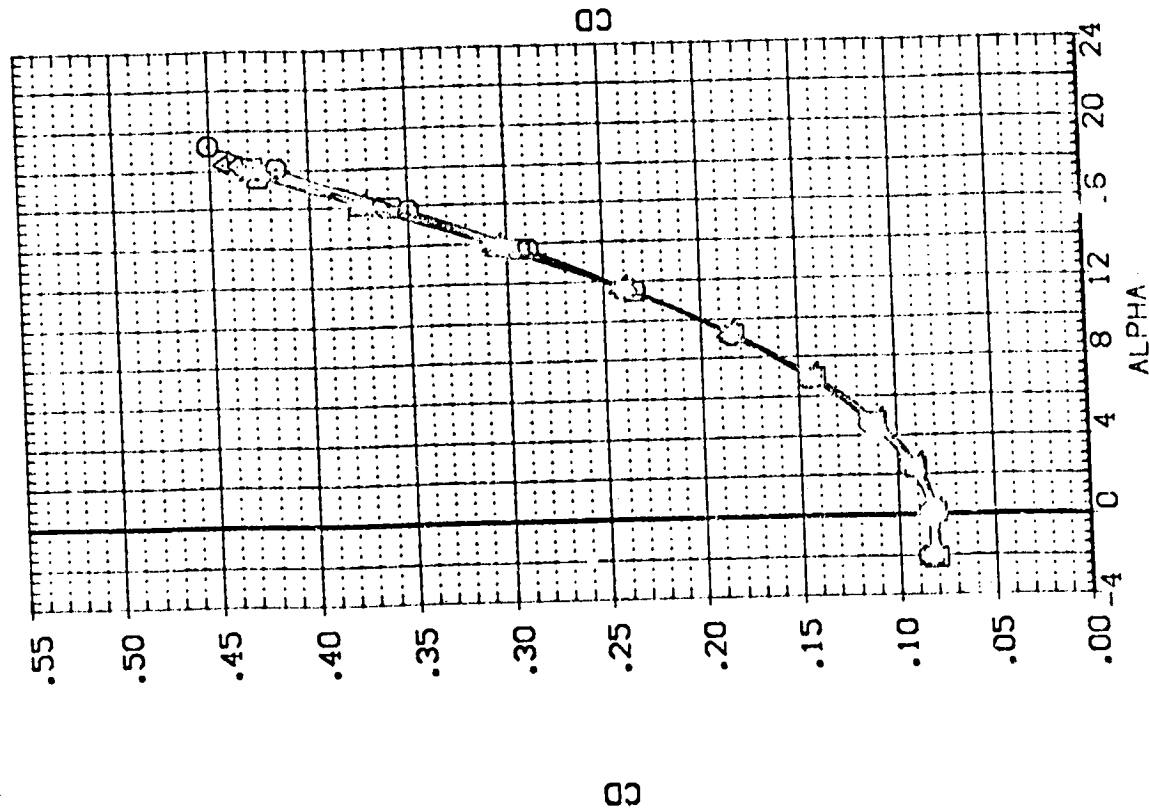
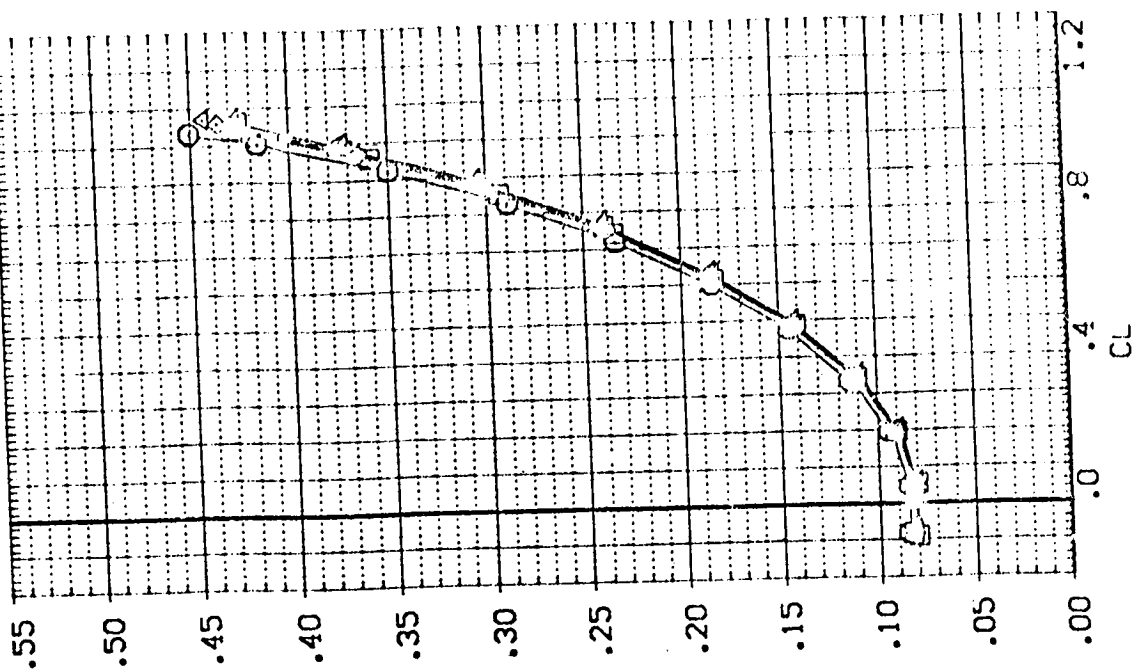


 EFFECT OF FLUET ON MSC 049 WING (B W3 V FB)

$$\text{COMACH} = .98$$



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION	SCALE
[RP5016]	LARC 8-FT TPT 644 LC-100 CRB1TER(SH)PS (BV3VFB)	35.000	3.000	.000	.000	SREF 173.1312	SC: N
[RP5018]	LARC 8-FT TPT 644 LC-100 CRB1TER(SH)PS (BV3VFB)	55.000	3.000	.000	.000	LREF 25.5000	SC: S
[RP5019]	LARC 8-FT TPT 644 LC-100 CRB1TER(SH)PS (BV3VFB)	65.000	3.000	.000	.000	BREF 20.9000	SC: S
[RP5020]	LARC 8-FT TPT 644 LC-100 CRB1TER(SH)PS (BV3VFB)	70.000	3.000	.000	.000	XREF 16.8333	SC: S
[RP5021]	LARC 8-FT TPT 644 LC-100 CRB1TER(SH)PS (BV3VFB)	75.000	3.000	.000	.000	YREF .0000	SC: S
[RP5022]	LARC 8-FT TPT 644 LC-100 CRB1TER(SH)PS (BV3VFB)	78.000	3.000	.000	.000	ZREF .0000	SC: S
						SCALE .0188	SCALE



EFFECT OF FILLET ON MSC 049 WING (B W3 V FB)

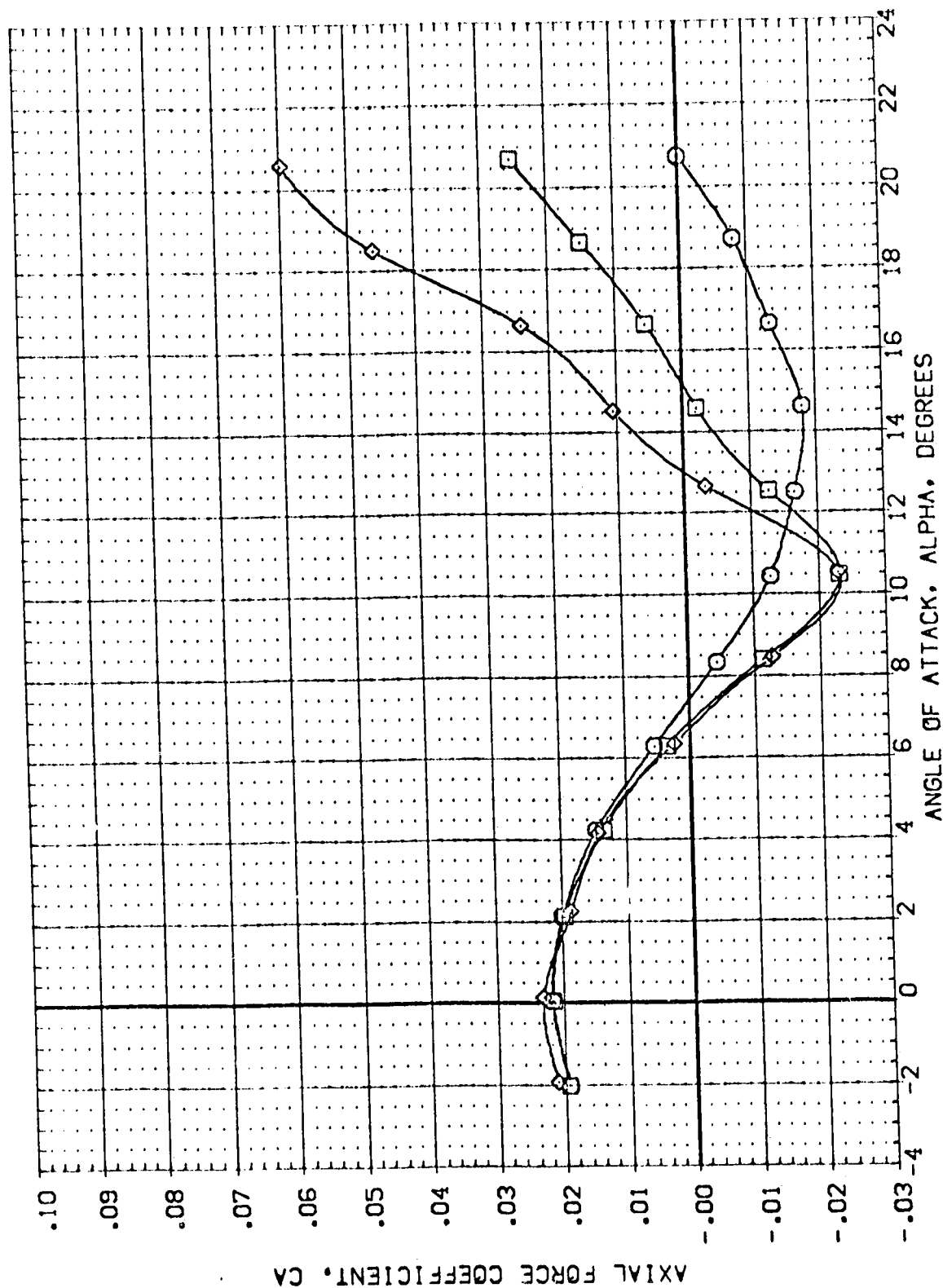
(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMDAF VINGNO RUFLR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

(RPS001) LARC 8-FT TPT 644 LG-100 CR31TER(SHIPS) (BV1VFB) 53.200 1.000 .000 .000

(RPS007) LARC 8-FT TPT 644 LG-100 CR31TER(SHIPS) (BV2VFB) 45.800 2.000 .000 .000

(RPS016) LARC 8-FT TPT 644 LG-100 CR31TER(SHIPS) (BV3VFB) 35.000 3.000 .000 .000



EFFECT OF WING LEADING EDGE SWEEP

(A)MACH = .35

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATA SETS

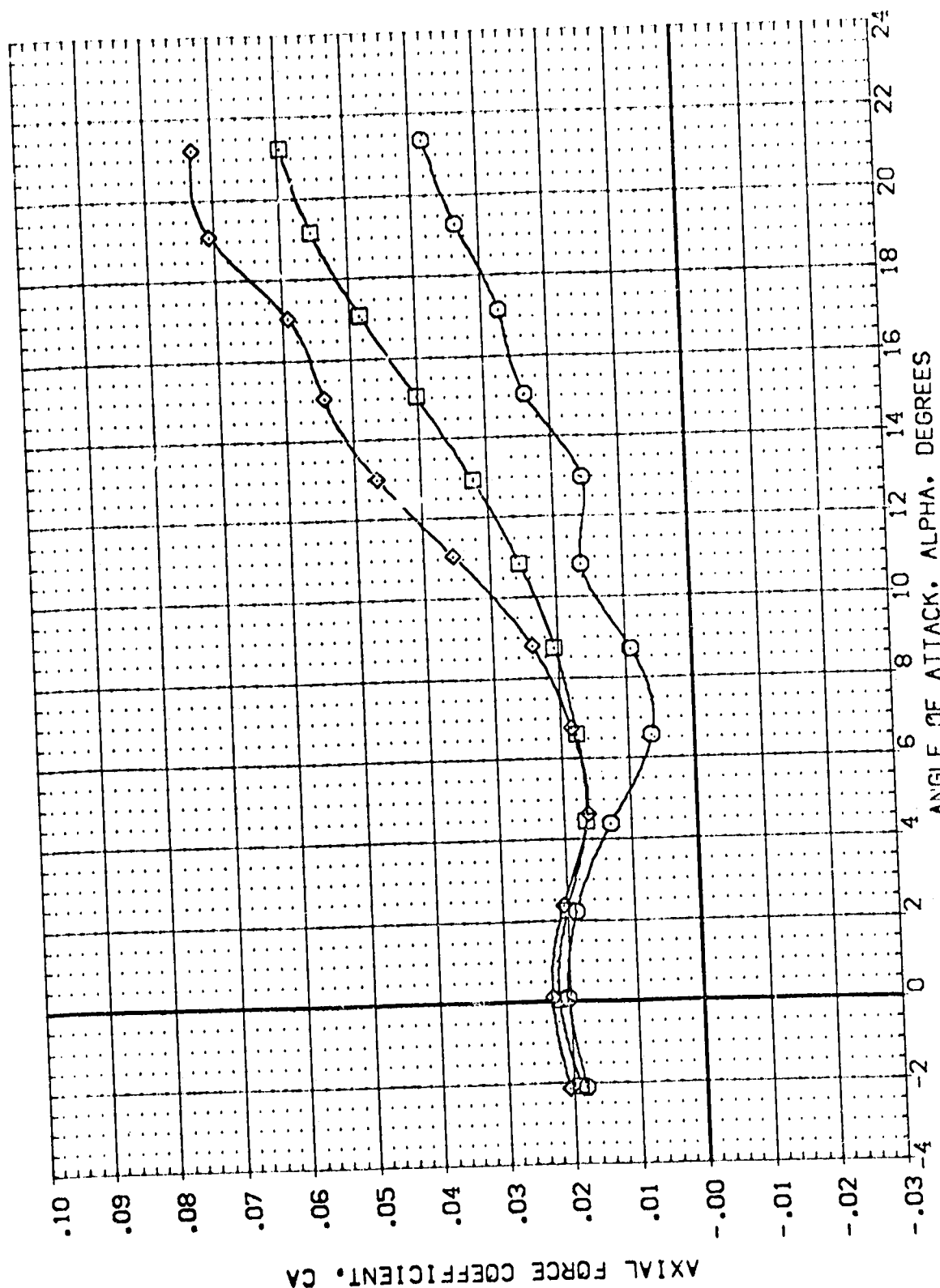
BOFLAP .000
RUDFLR .000
VINGNO 1.000
2.000
3.000

LAVDAF 53.200
46.800
35.000

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LG-100 CRB[TER(SHIPS)] (BV1VFB)
LARC 8-FT TPT 644 LG-100 CRB[TER(SHIPS)] (BV2VFB)
LARC 8-FT TPT 644 LG-100 CRB[TER(SHIPS)] (BV3VFB)

DATA SET SYMBOL
(RPS001)
(RPS007)
(RPS016)



EFFECT OF WING LEADING EDGE SWEEP

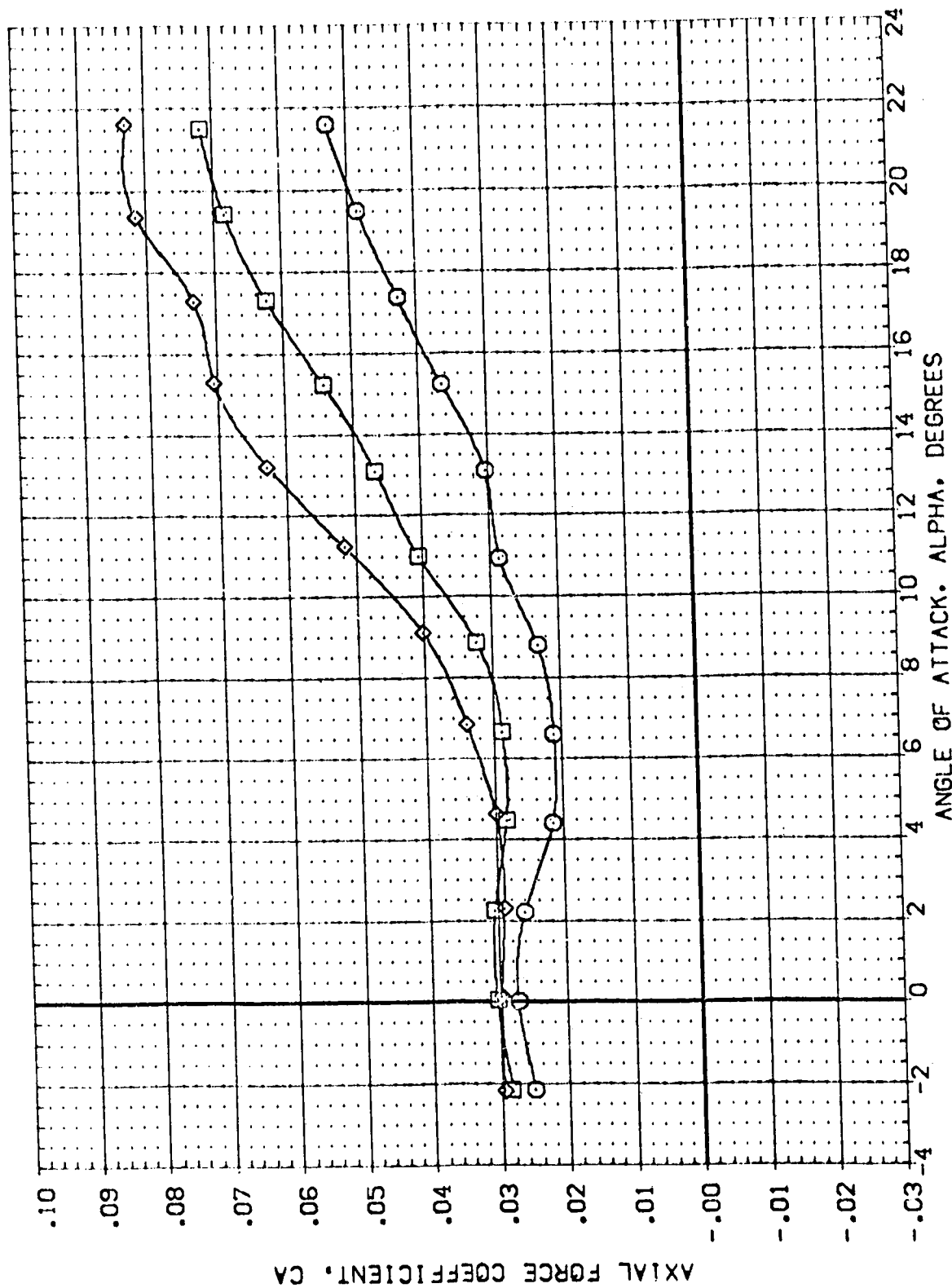
(B)MACH = .80

DATA SET SYMBOLS: \diamond \square \circ

CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LG-100 ORG:TER(SHIPS) (BV1VFB)
 LARC 8-FT TPT 644 LG-100 ORG:TER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LG-100 ORG:TER(SHIPS) (BV3VFB)

LANDAF: 53.200 1.000 2.000 3.000
 WINGNO: 53.200 1.000 2.000 3.000
 RDOFLR: .000 .000 .000 .000
 SOFLAP: .000 .000 .000 .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS



EFFECT OF WING LEADING EDGE SWEEP

(C)MACH = .90

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BOFLAP
.000
.000
.000

RUDFLR
.000
.000
.000

WINGQ
1.000
2.000
3.000

LANDAF
53.200
46.800
35.000

(BV1VFB)
(BV2VFB)
(BV3VFB)

CR81TER(SHIPS)
CR81TER(SHIPS)
CR81TER(SHIPS)

LO-100
LO-100
LO-100

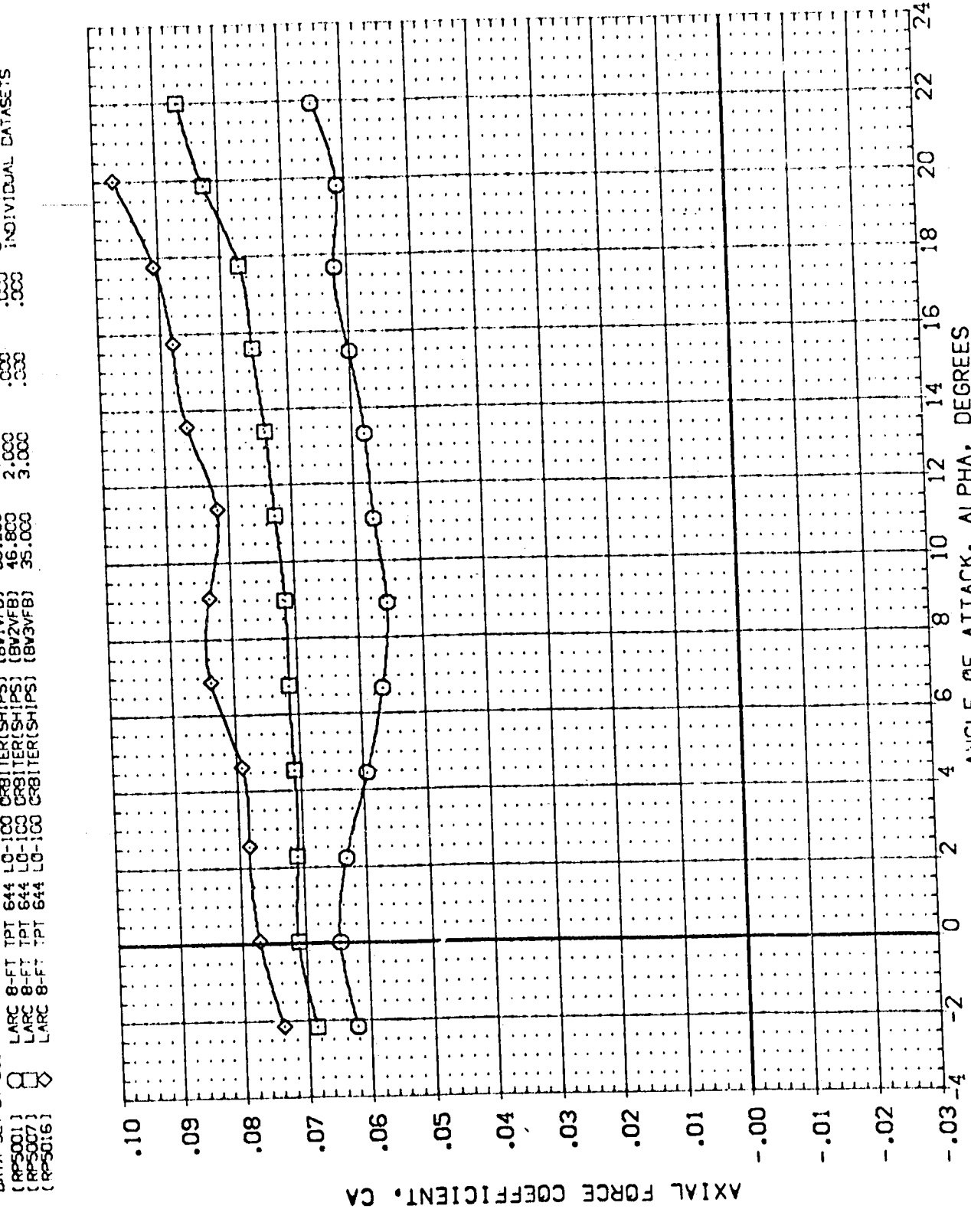
TPT 644
TPT 644
TPT 644

LARC 8-FT
LARC 8-FT
LARC 8-FT

(RP5001)
(RP5007)
(RP5016)

DATA SET SYMBOL
CONFIGURATION DESCRIPTION

AXIAL FORCE COEFFICIENT, CA



EFFECT OF WING LEADING EDGE SWEEP

(0)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[PP5001] LARC 8-FT TPT 644 LG-100 CR31TER(SHIPS) (BV1VFB) [BV1VFB] 53.200

[PP5007] LARC 8-FT TPT 644 LG-100 CR31TER(SHIPS) (BV2VFB) [BV2VFB] 46.800

[PP5016] LARC 8-FT TPT 644 LG-100 CR31TER(SHIPS) (BV3VFB) [BV3VFB] 35.000

WINGNO 1.000

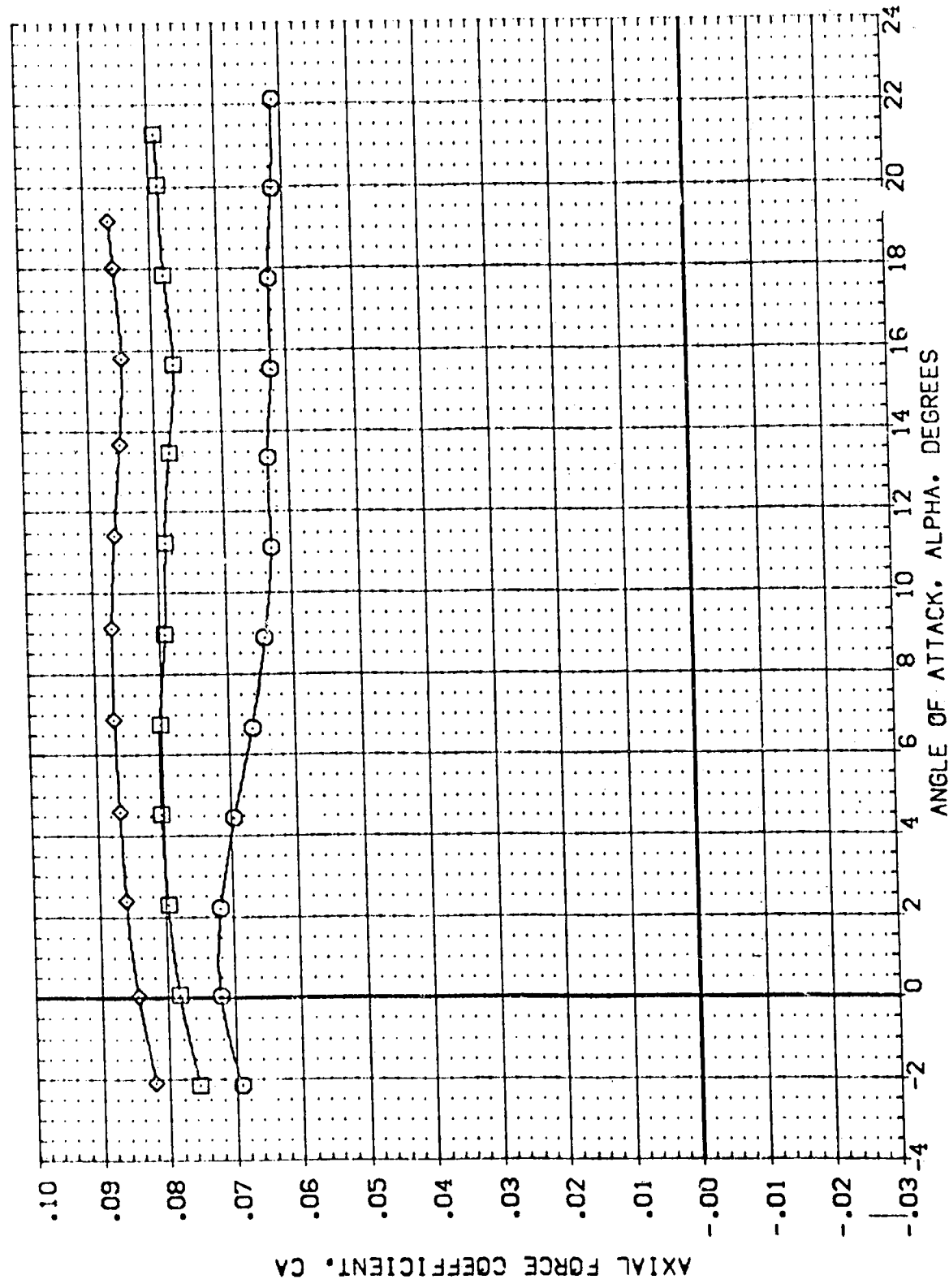
ROFLR .000

BOFLAP .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE

CHARACTERISTICS

INDIVIDUAL DATA

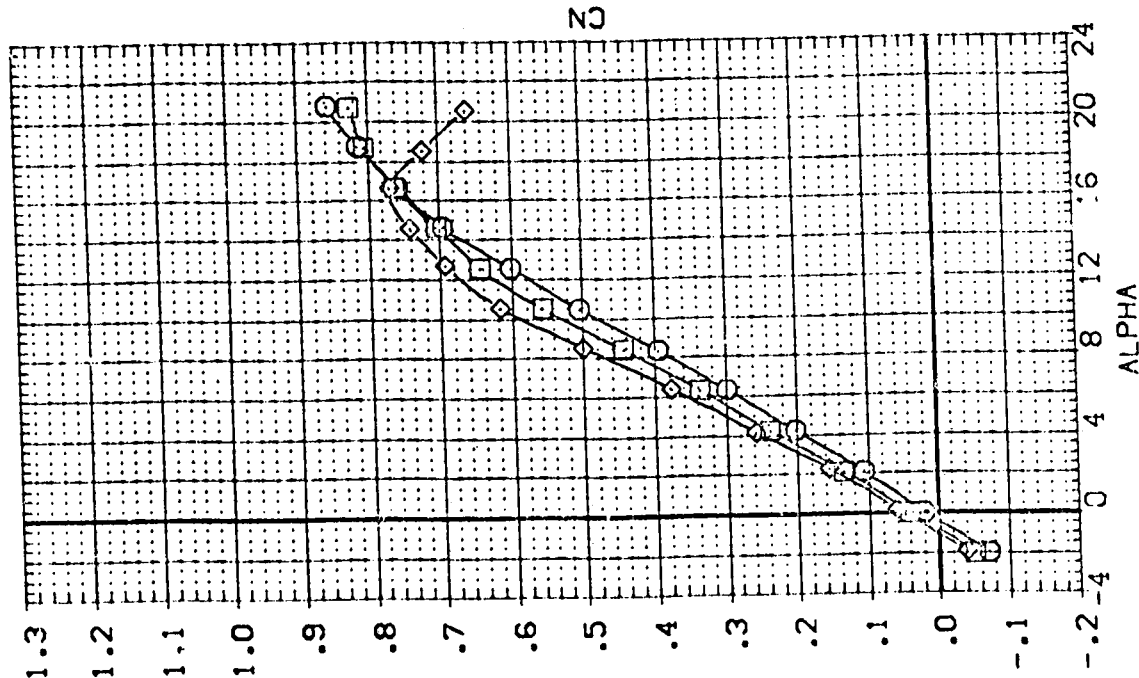
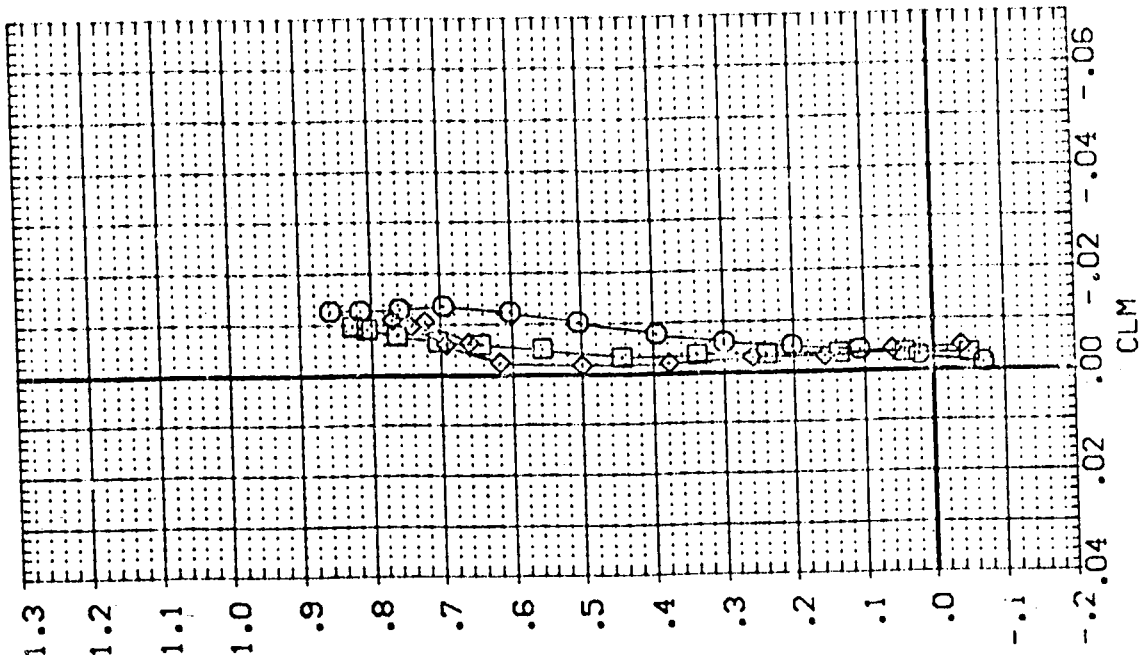


EFFECT OF WING LEADING EDGE SWEEP

(EJSMACH = 1.20)



DATA SET SYMBOL: (RP5001) (RP5007) (RP5016)
 CONFIGURATION DESCRIPTION:
 LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV1VFB)
 LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV2VFB)
 LARC 8-FT TPT 644 LO-100 CR3ITER(SH)PS (BV3VFB)
 LAMDAF 53.200 1.000 2.000 3.000
 VINGNO 1.000 .000 .000 .000
 RUFLR .000 .000 .000 .000
 BOFLR .000 .000 .000 .000
 SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS



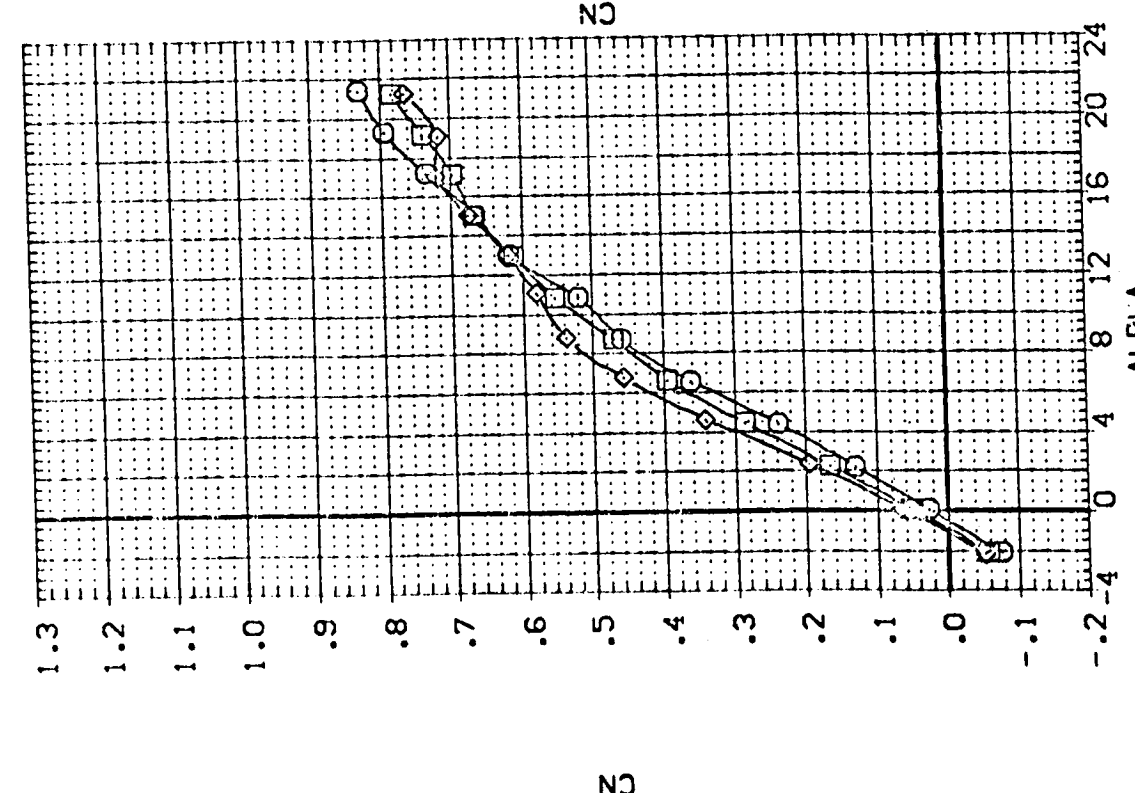
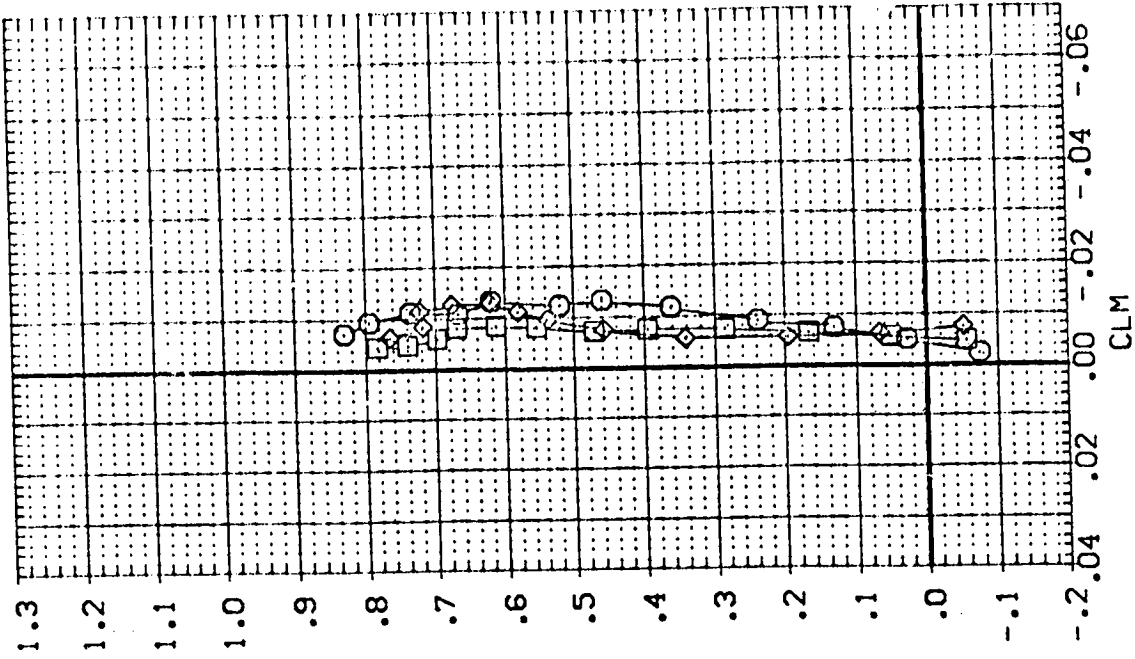
EFFECT OF WING LEADING EDGE SWEEP

(M)MACH = .35

DATA SET SYMBOL: (RPS001) (RPS002) (RPS003) (RPS004) (RPS005) (RPS006) (RPS007) (RPS008) (RPS009) (RPS010) (RPS011) (RPS012) (RPS013) (RPS014) (RPS015) (RPS016) (RPS017) (RPS018) (RPS019) (RPS020) (RPS021) (RPS022) (RPS023) (RPS024) (RPS025) (RPS026) (RPS027) (RPS028) (RPS029) (RPS030) (RPS031) (RPS032) (RPS033) (RPS034) (RPS035) (RPS036) (RPS037) (RPS038) (RPS039) (RPS040) (RPS041) (RPS042) (RPS043) (RPS044) (RPS045) (RPS046) (RPS047) (RPS048) (RPS049) (RPS050) (RPS051) (RPS052) (RPS053) (RPS054) (RPS055) (RPS056) (RPS057) (RPS058) (RPS059) (RPS060) (RPS061) (RPS062) (RPS063) (RPS064) (RPS065) (RPS066) (RPS067) (RPS068) (RPS069) (RPS070) (RPS071) (RPS072) (RPS073) (RPS074) (RPS075) (RPS076) (RPS077) (RPS078) (RPS079) (RPS080) (RPS081) (RPS082) (RPS083) (RPS084) (RPS085) (RPS086) (RPS087) (RPS088) (RPS089) (RPS090) (RPS091) (RPS092) (RPS093) (RPS094) (RPS095) (RPS096) (RPS097) (RPS098) (RPS099) (RPS100)

CONFIGURATION DESCRIPTION: LARC 8-FT TPT 644 LO-100 CRBITTER(SHIP) (BV1VFB) LARC 8-FT TPT 644 LO-100 CRBITTER(SHIP) (BV2VFB) LARC 8-FT TPT 644 LO-100 CRBITTER(SHIP) (BV3VFB)

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS



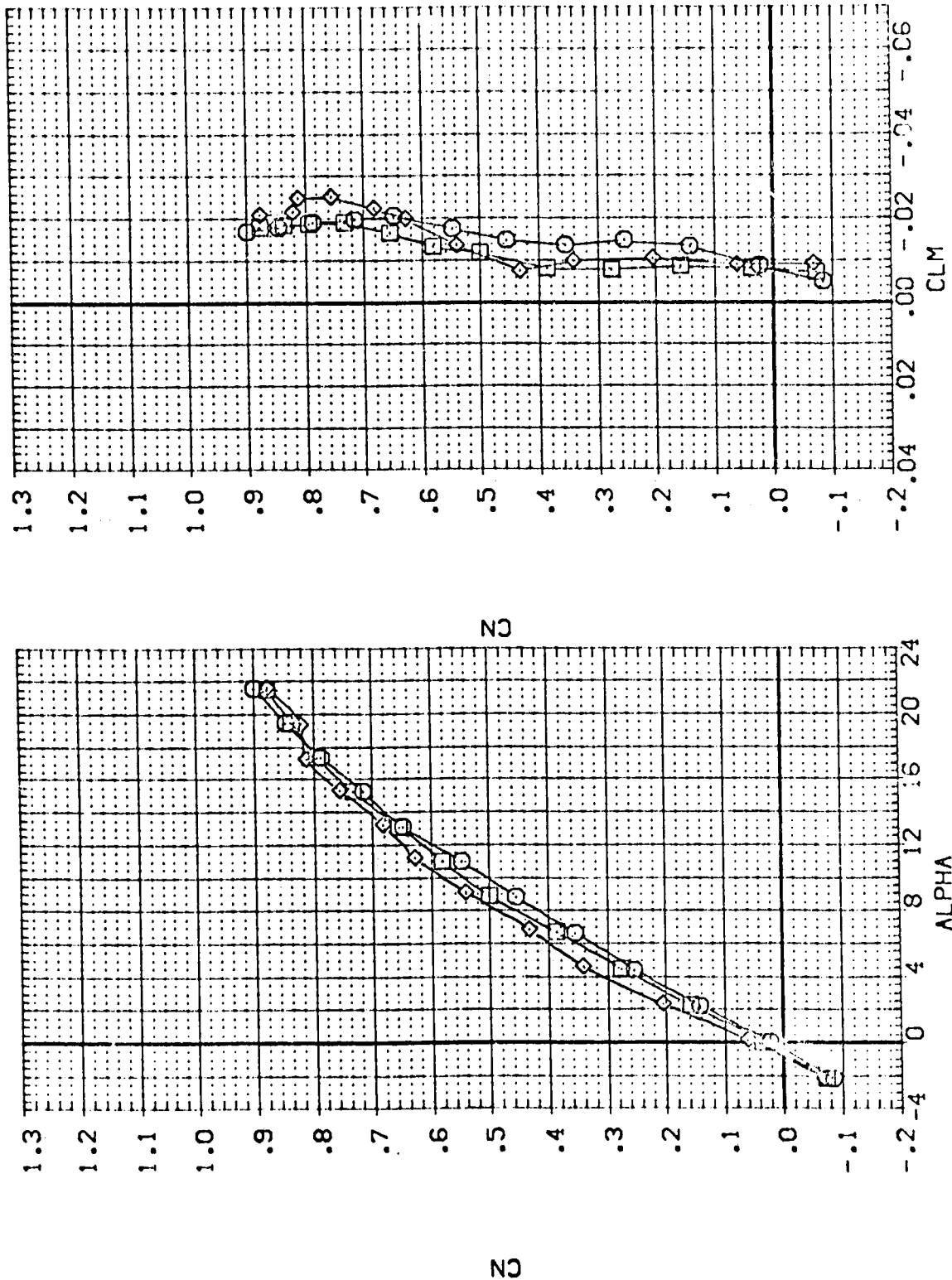
EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION LAYDNF VINGNO RUOFLR BDFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAYDNF	VINGNO	RUOFLR	BDFLAP
(RP5001)	LARC 8-FT TPT 644 LG-100 CR8 TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000
(RP5007)	LARC 8-FT TPT 644 LG-100 CR8 TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000
(RP5016)	LARC 8-FT TPT 644 LG-100 CR8 TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000

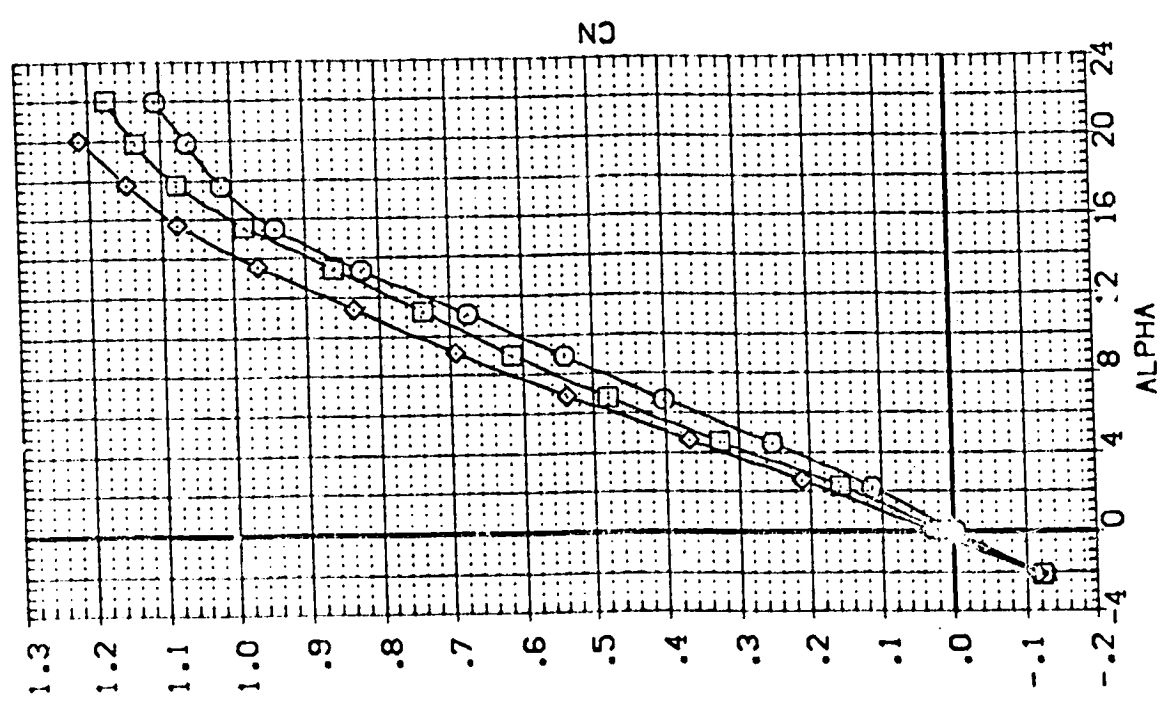
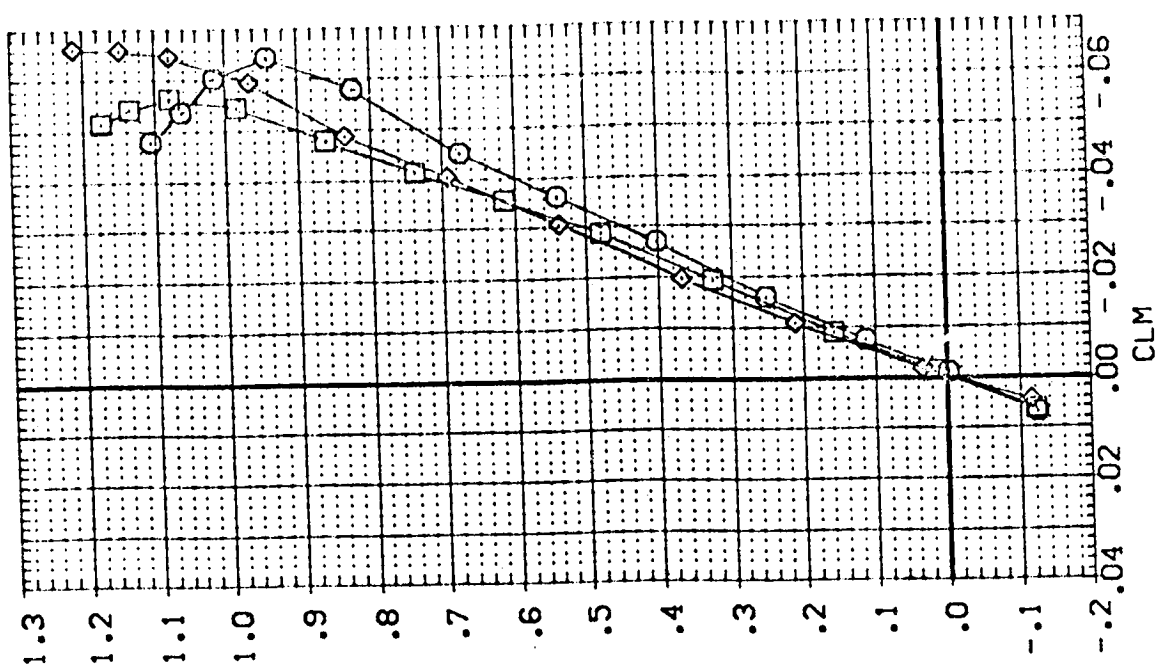


EFFECT OF WING LEADING EDGE SWEEP

(C)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMDAF WINGNO RUDELIR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUDELIR	BOFLAP
[RPS001]	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV1VFB)	53.200	1.000	.000	.000
[RPS007]	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000
[RPS016]	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV3VFB)	35.000	3.000	.000	.000



EFFECT OF WING LEADING EDGE SWEEP

(DJMACH = .98

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BDFLAP
.000
.000
.000




RUDFLR
.000
.000
.000

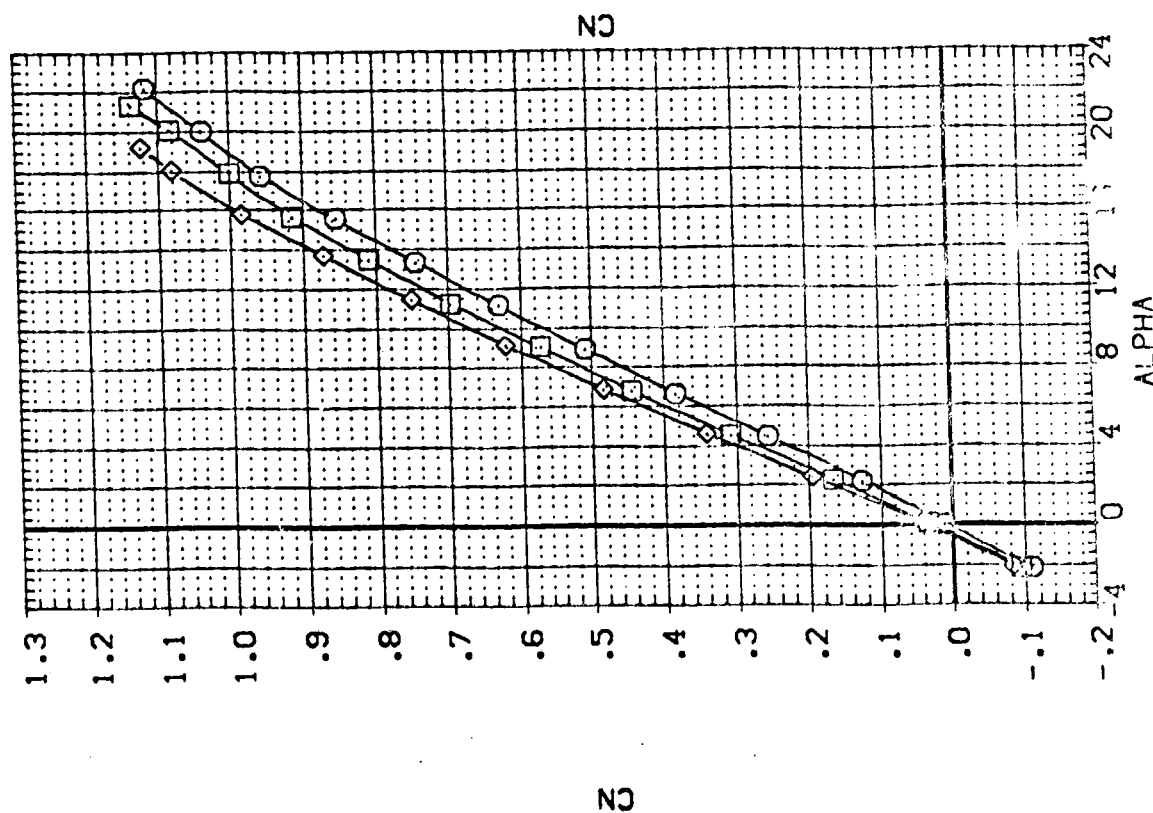
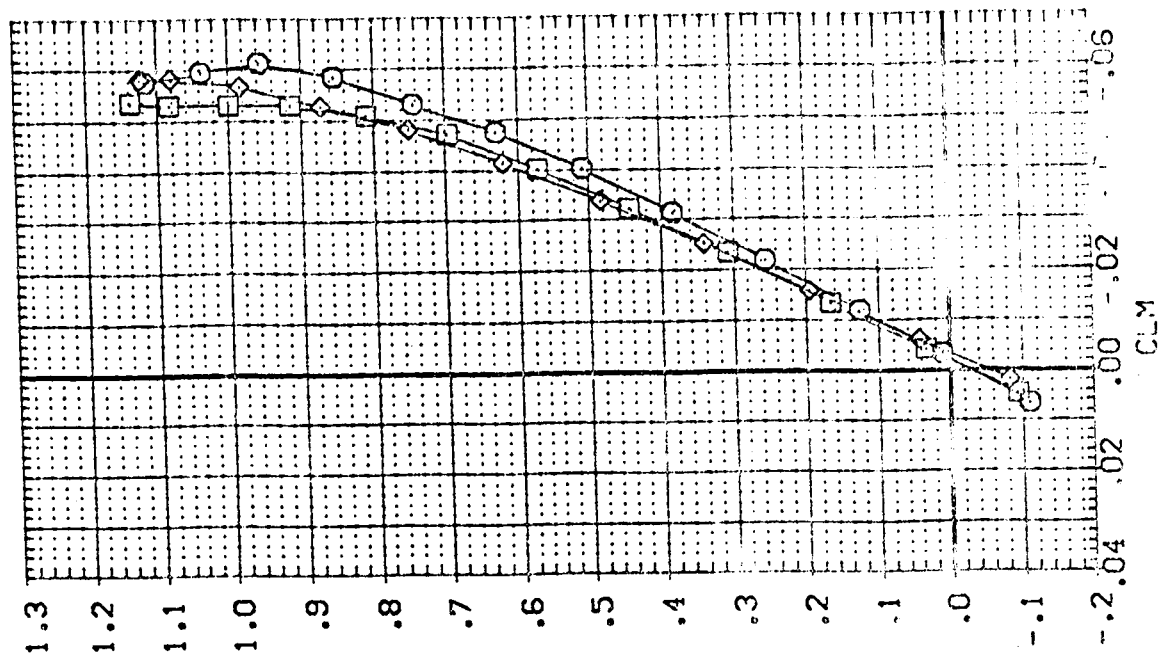
VINGSO
1.000
2.000
3.000

LAMDAF
53.200
46.800
35.000

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)
LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)
LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)

DATA SET SYMBOL
[RP5001] 
[RP5007] 
[RP5016] 



EFFECT OF WING LEADING EDGE SWEEP

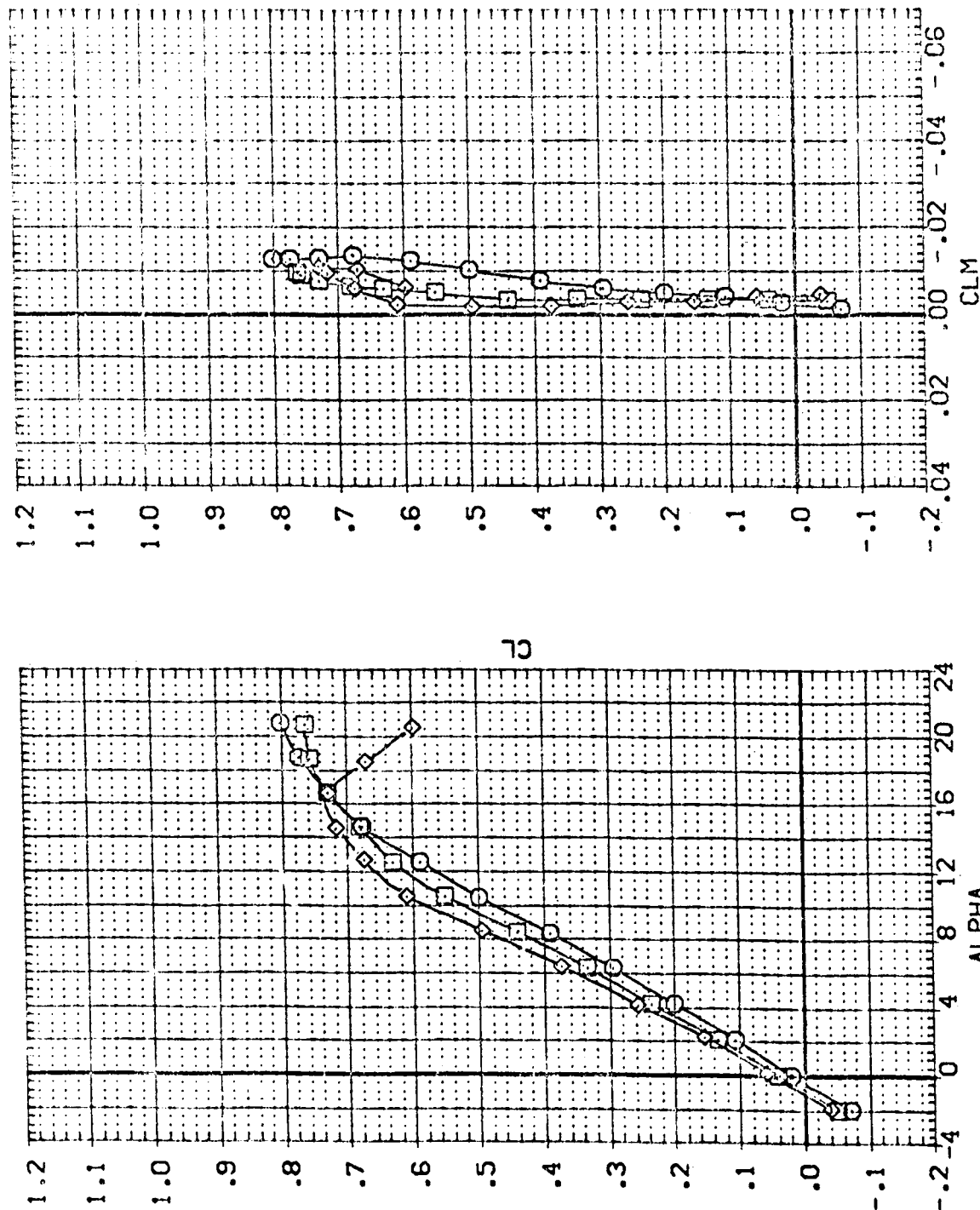
(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION LARCF WINGNO RUSFLR RUSFLP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE

(R25001) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (8V1VF8) 53.200 1.000 .000 .000 QUANTITIES FOR INDIVIDUAL DATASETS

(R25007) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (8V2VF8) 46.800 2.000 .000 .000

(R25016) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (8V3VF8) 35.000 3.000 .000 .000



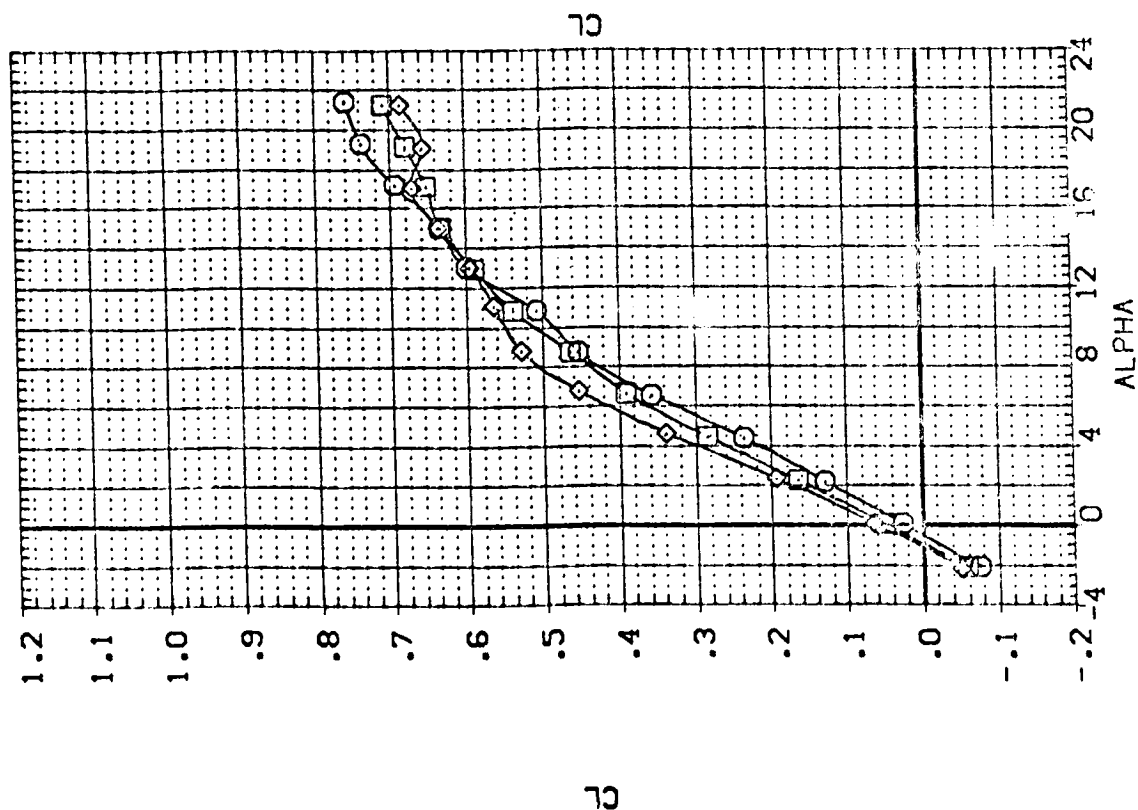
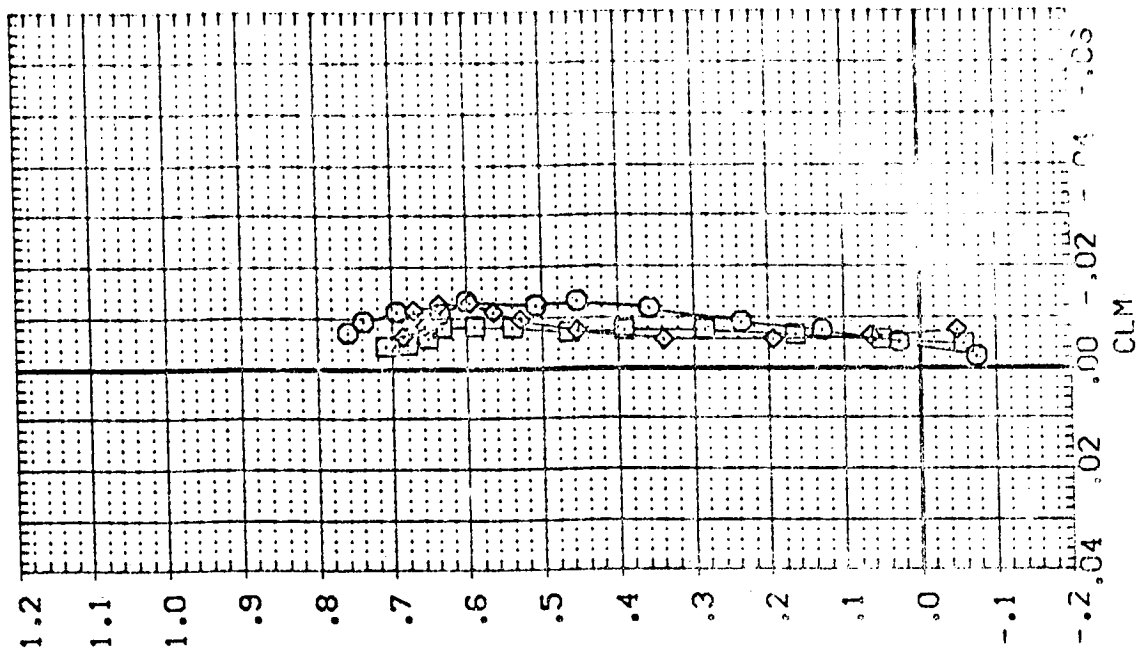
EFFECT OF WING LEADING EDGE SWEEP

(MACH = .35)

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BOFLAP .000
RUOFLR .000
VINGNO 1.000
2.000
3.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RP5001) LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV1VFB)
(RP5007) LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)
(RP5016) LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV3VFB)



EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80

DATA SET SYMBOL: (RPSQ011) (RPSQ071) (RPSQ151)

CONFIGURATION DESCRIPTION: LARC 8-FT TPT 644 LG-100 OSB/TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)

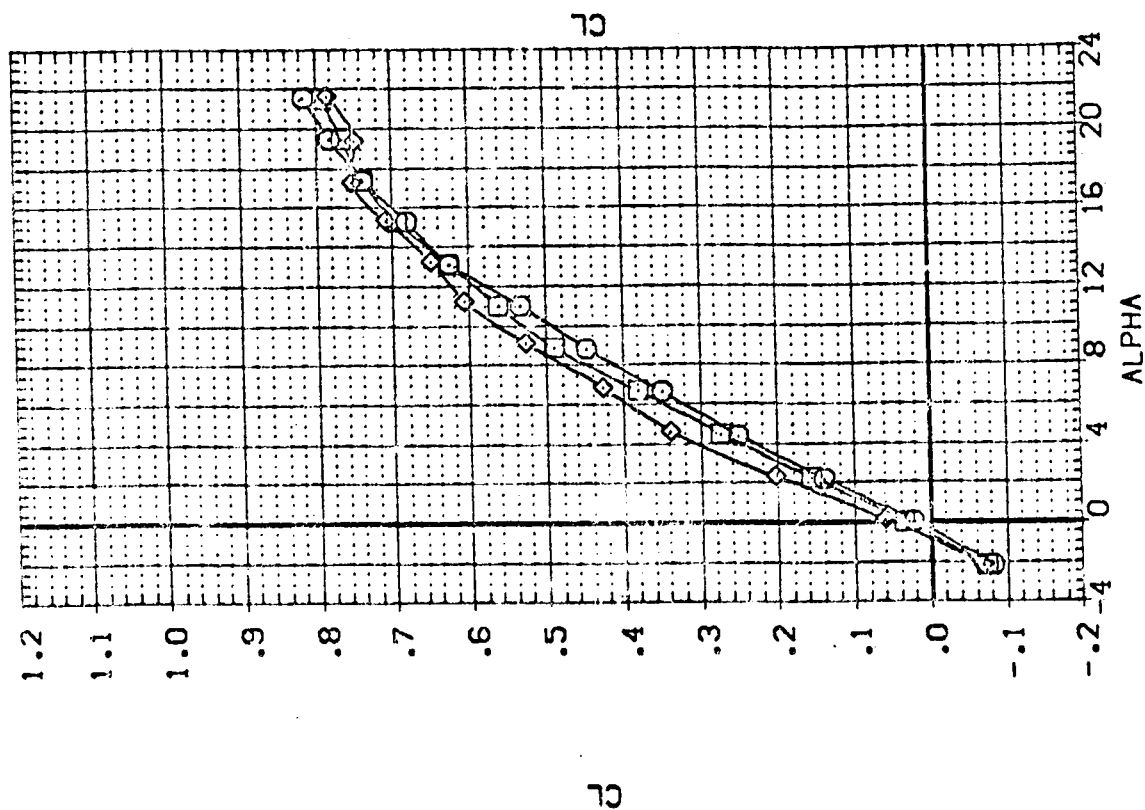
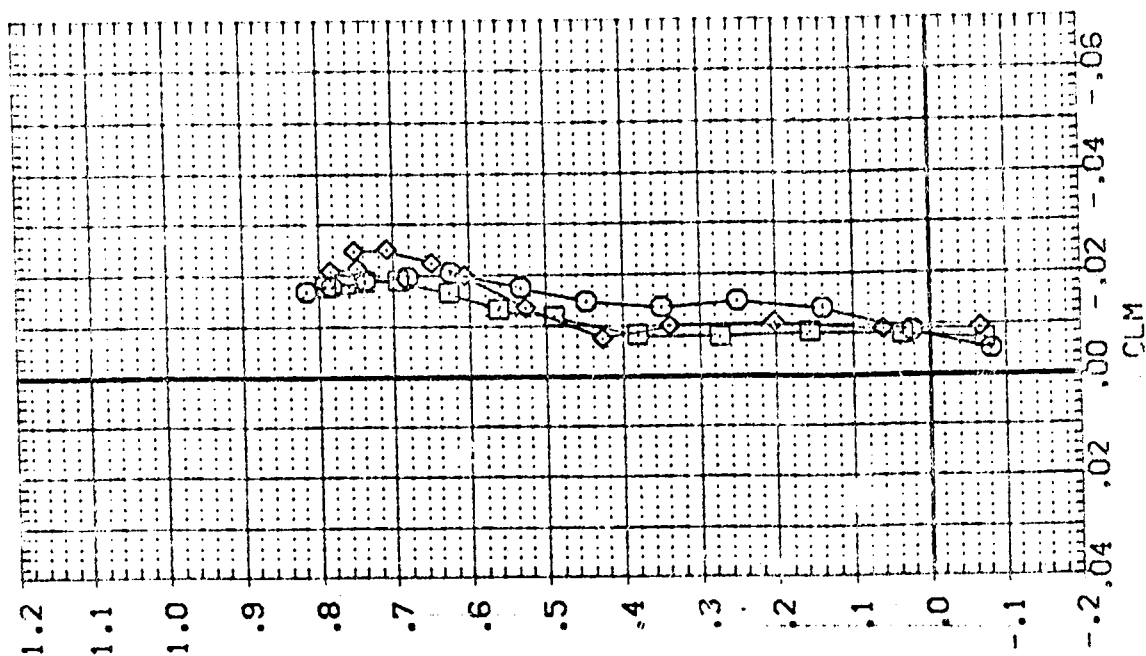
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BOFLAP: .000 .000 .000

RUOFLR: .000 .000 .000

VINGAO: 1.000 2.000 3.000

LAMDAF: 53.200 46.800 35.000



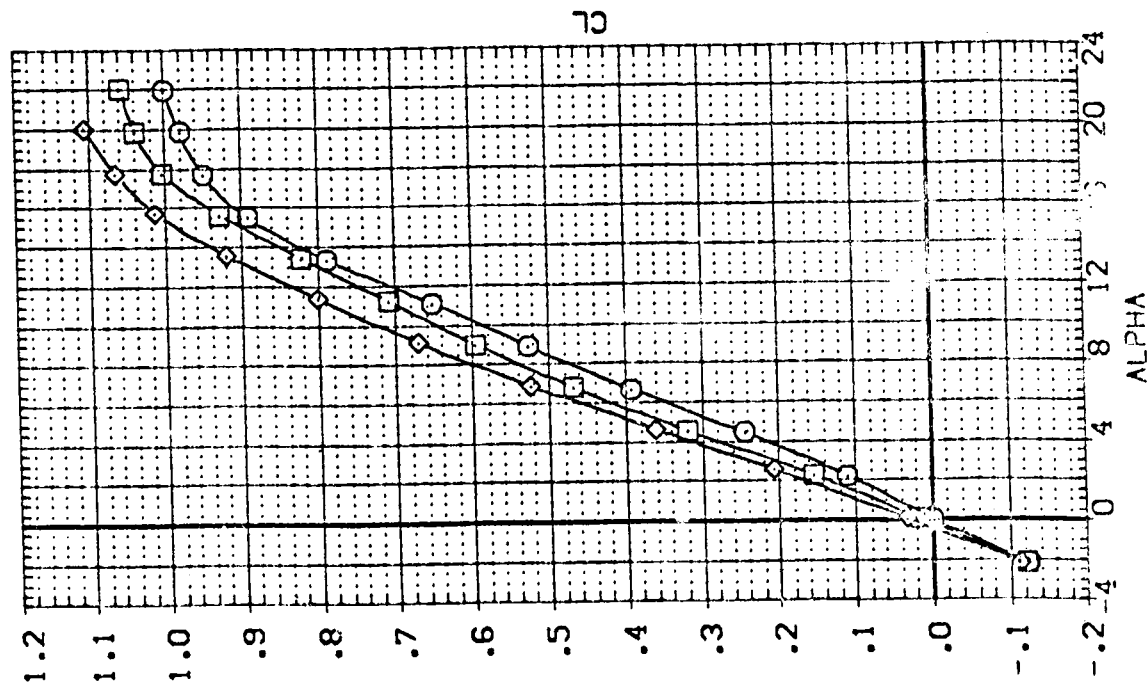
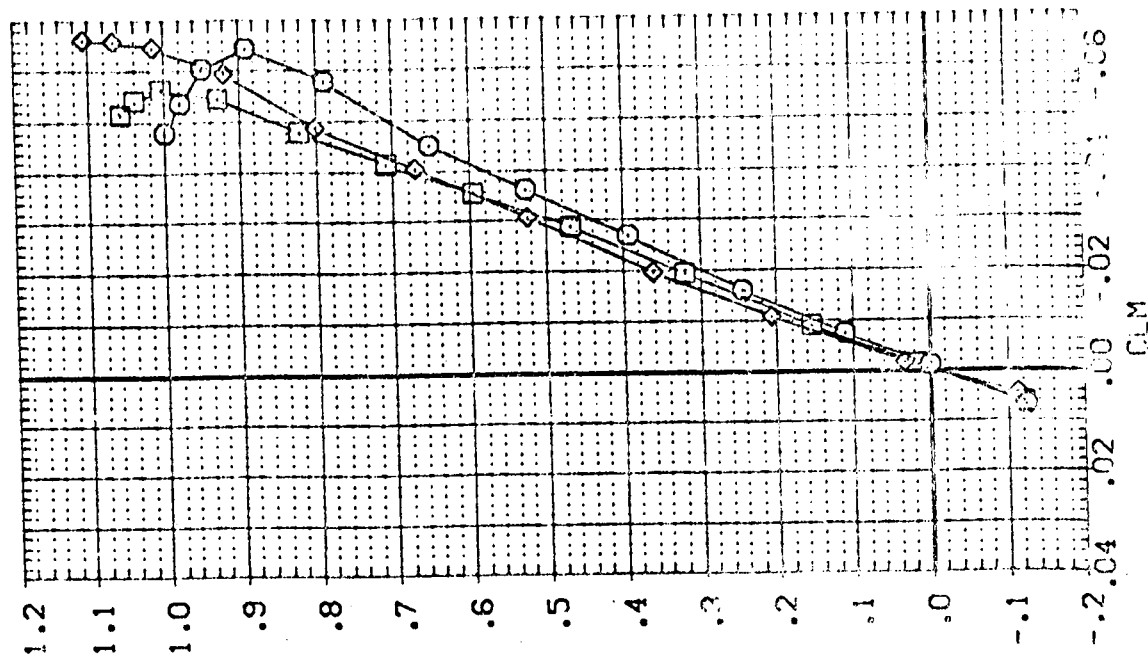
EFFECT OF WING LEADING EDGE SWEEP

(CJMACH = .90)

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

BOFLAP .000
RUEFLR .000
VINGNO 1.000
LAWDAF 53.200
53.200
46.800
35.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RP5001) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)
(RP5007) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)
(RP5016) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV3VFB)



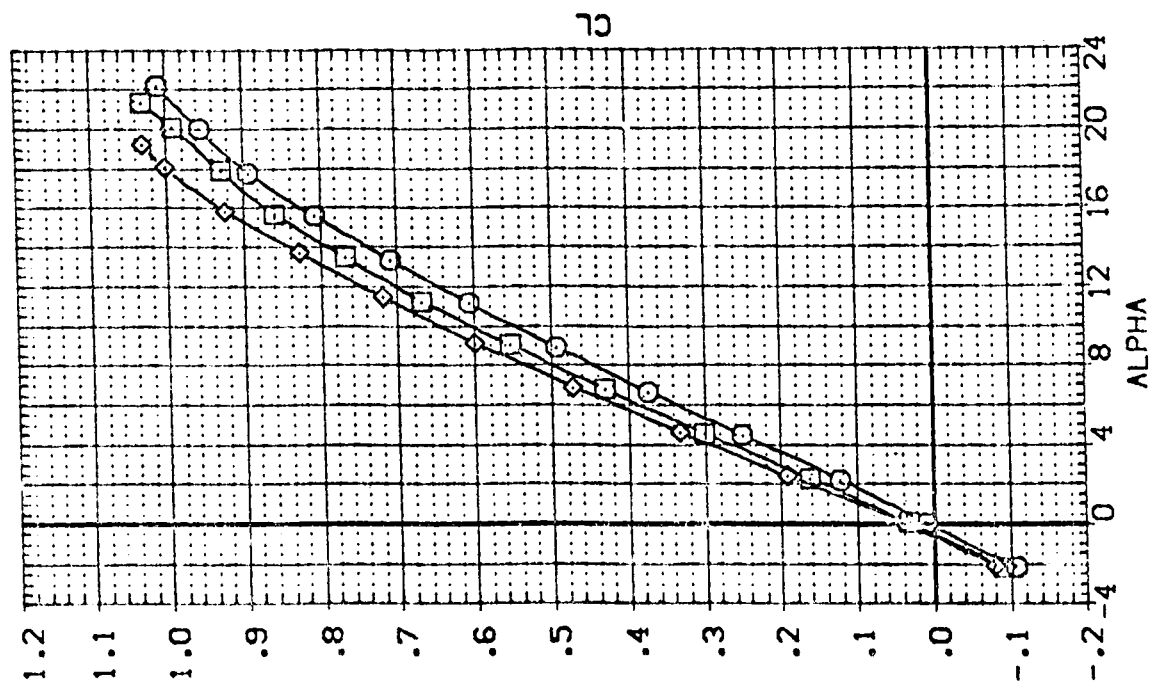
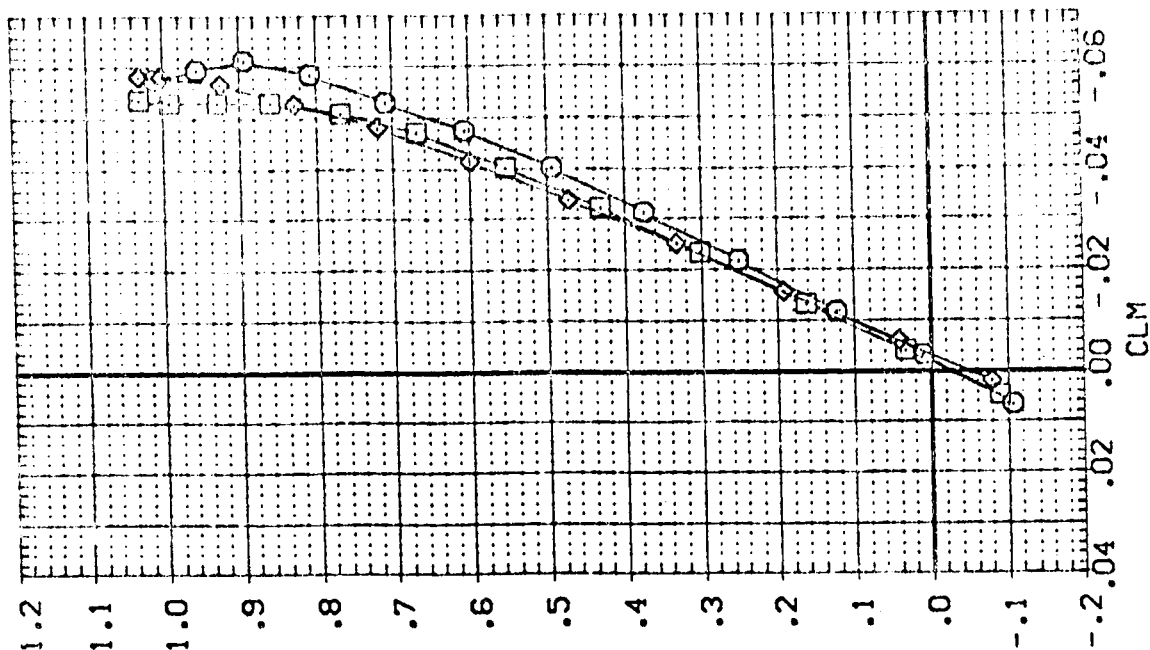
EFFECT OF WING LEADING EDGE SLEEP

(M)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION LARC 8-FT TPT 644 LO-100 C381TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 [RP5001] LARC 8-FT TPT 644 LO-100 C381TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 [RP5007] LARC 8-FT TPT 644 LO-100 C381TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)
 [RP5016] LARC 8-FT TPT 644 LO-100 C381TER(SHIPS) (BV1VFB) (BV2VFB) (BV3VFB)

LAYDAF VINGW RUOFLR RUOLAP
 53.200 1.000 .000 .000
 45.800 2.000 .000 .000
 35.100 3.000 .000 .000

SEE THE ASSOCIATED DATA
 DOCUMENT FOR REFERENCE
 CHARACTERISTICS FOR
 ANALYTICAL DATA SETS



EFFECT OF WING LEADING EDGE SWEEP

(E)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RPS001) LARC 8-FT TPT 644 LC-100 CRBITER(SHIP) (BV1VFB)
 (RPS007) LARC 8-FT TPT 644 LC-100 CRBITER(SHIP) (BV2VFB)
 (RPS016) LARC 8-FT TPT 644 LC-100 CRBITER(SHIP) (BV3VFB)

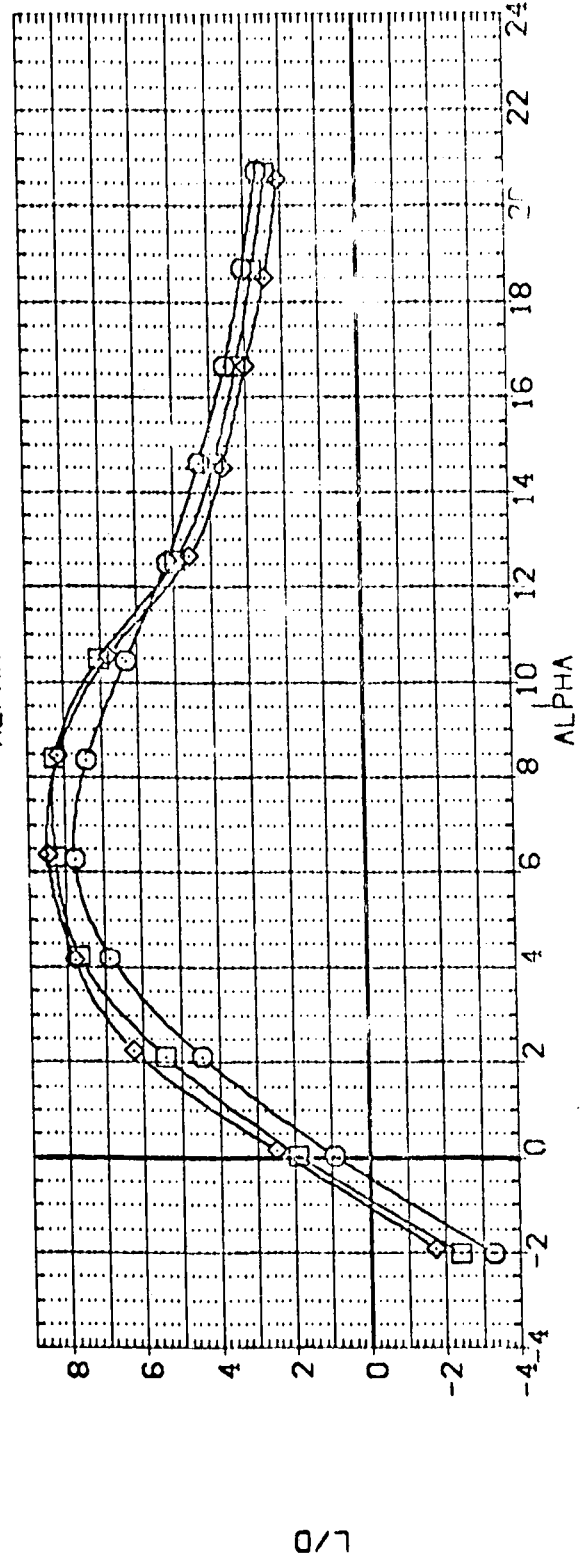
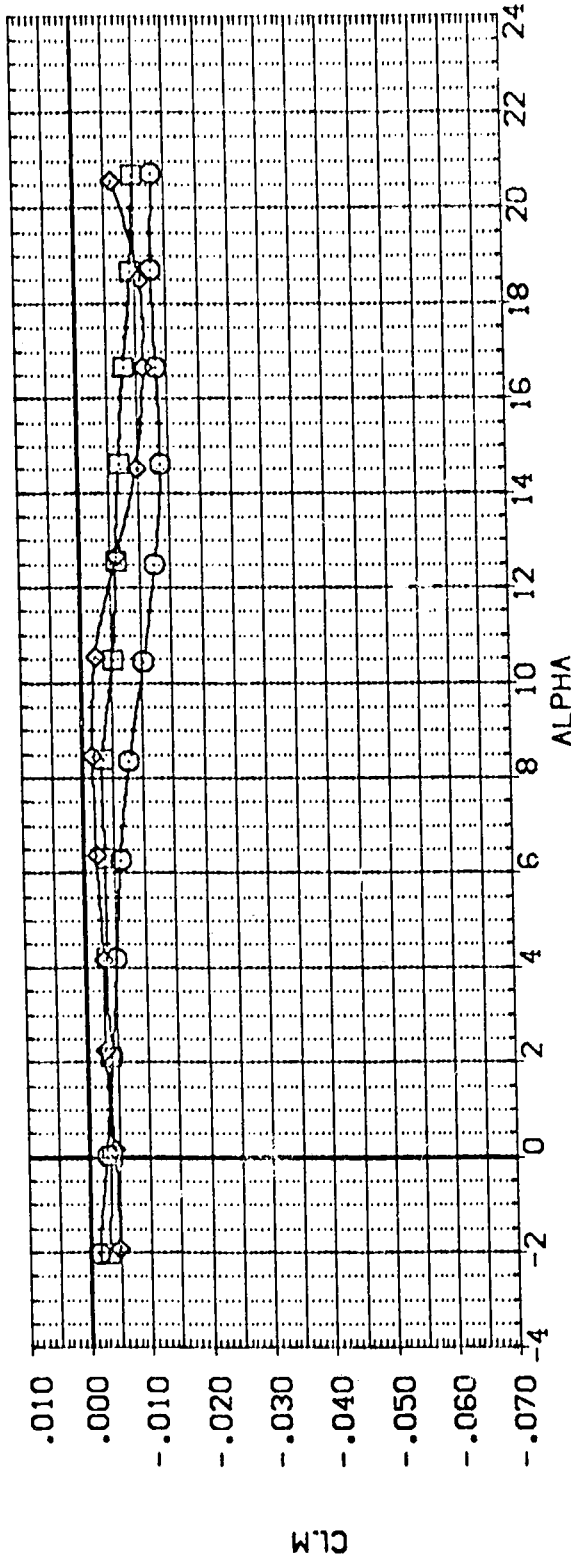
LA'DAF 53.200
 46.800
 35.000

VINGO 1.000
 2.000
 3.000

RUOFLR .000
 .000
 .000

BOFLAP .000
 .000
 .000

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS



EFFECT OF WING LEADING EDGE SWEEP

(A)MACH = .35

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RPS001) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV1VFB)

(RPS007) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV2VFB)

(RPS016) LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (BV3VFB)

SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATA SETS

BOFLAP .000

RJDFLR .000

VINGAO 1.000

LANDAF 53.200

53.200

46.800

35.000

3.000

2.000

1.000

.000

.000

.000

.000

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.000

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.000

.000

.000

.000

.000

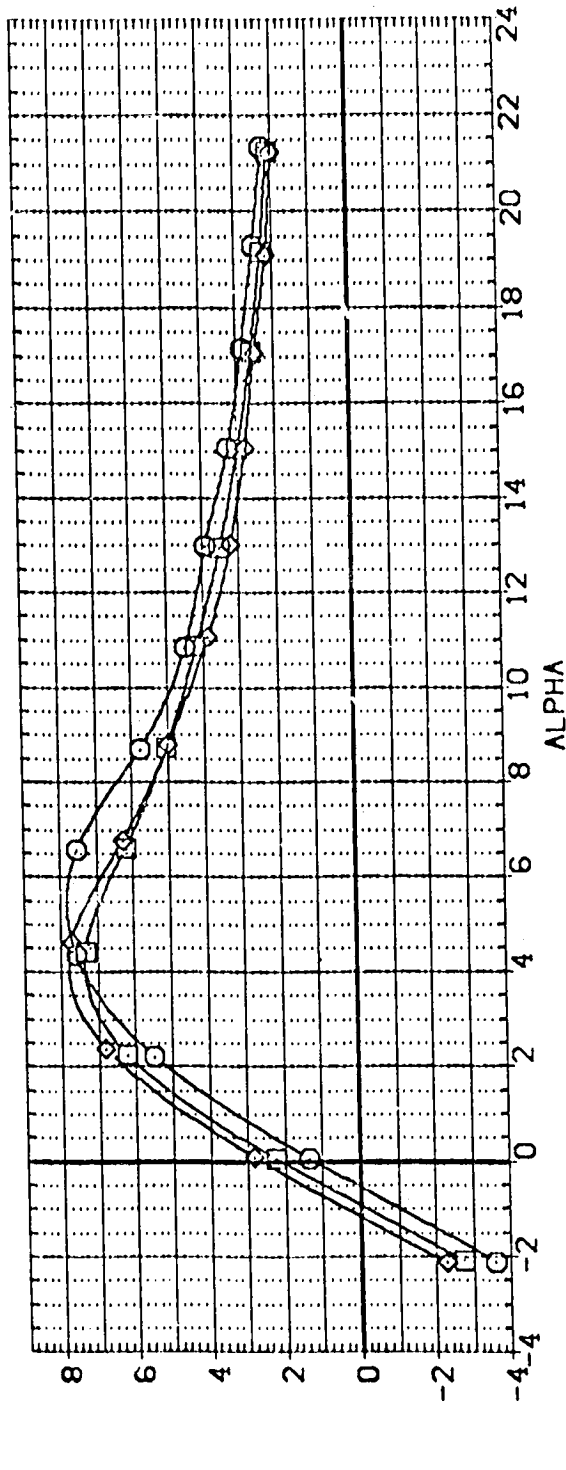
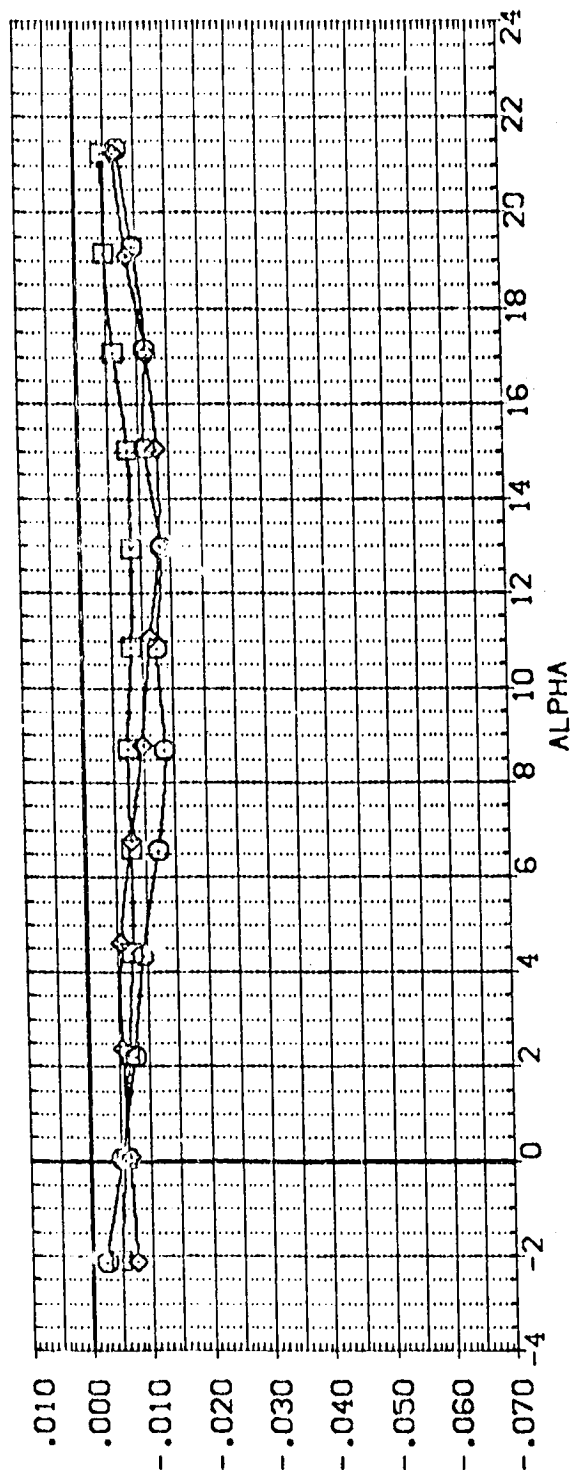
.000

.000

.000

.000

.000



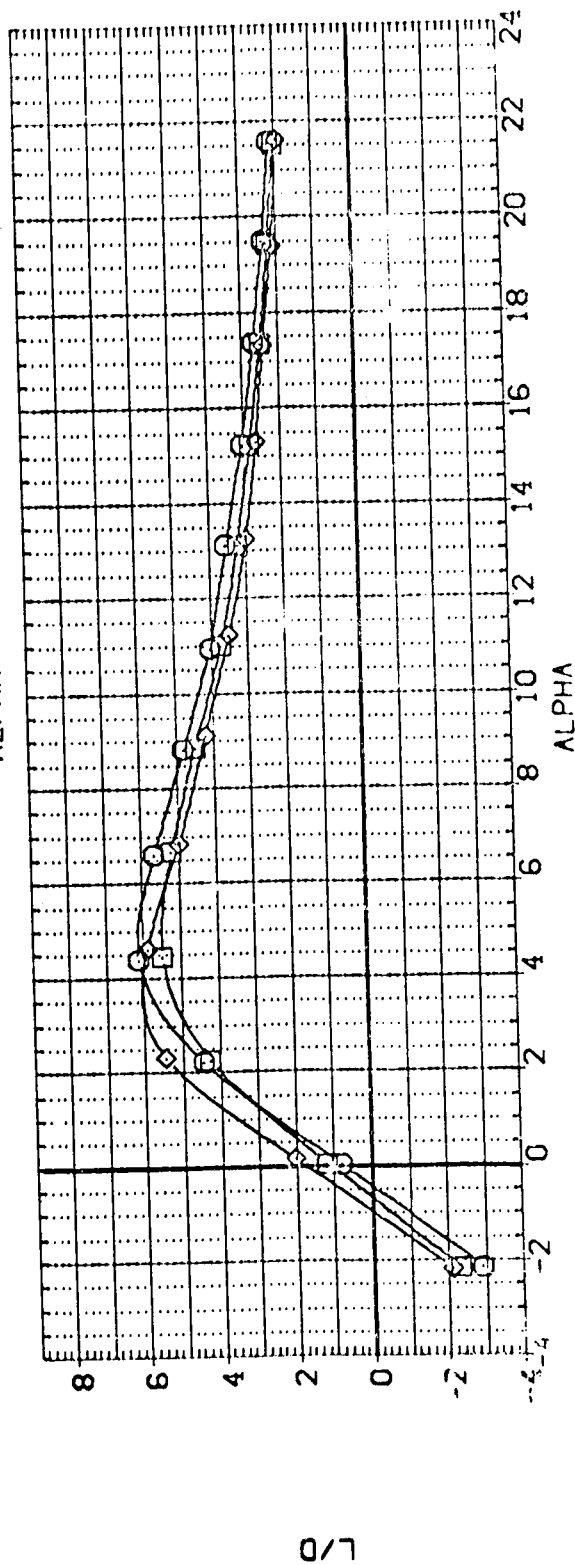
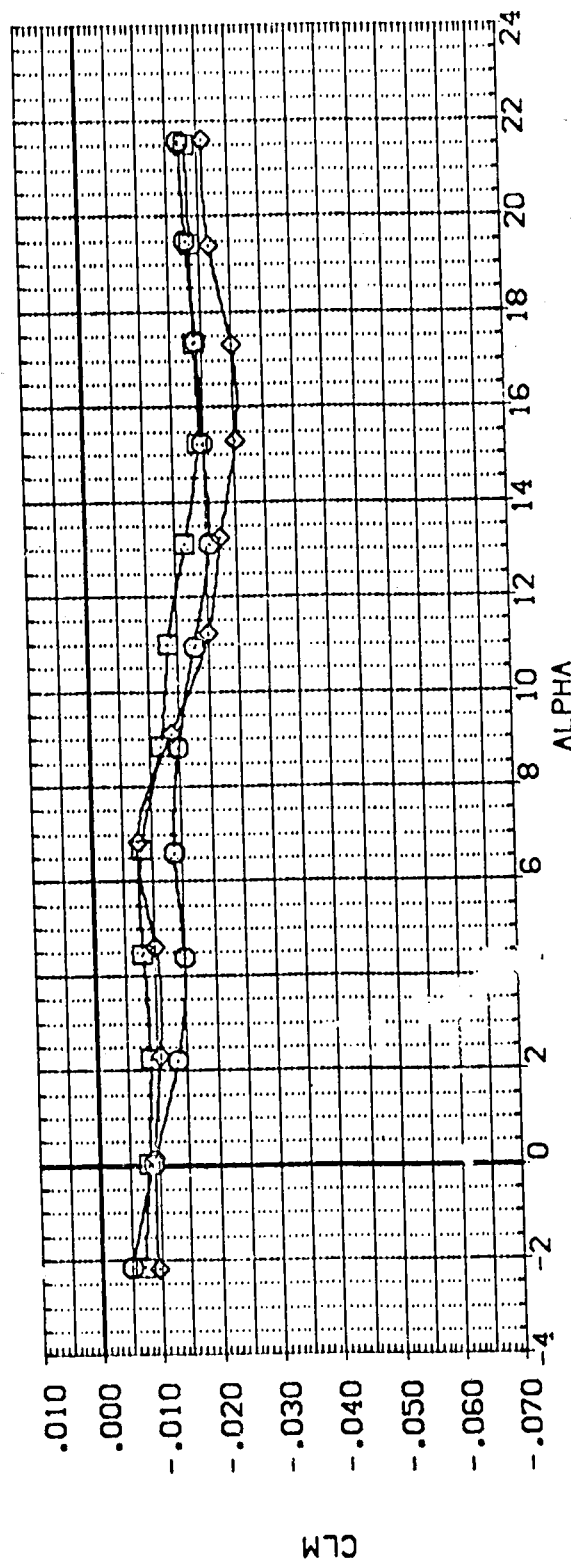
EFFECT OF WING LEADING EDGE SWEEP

(B)MACH = .80



DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMPAR VINGNO RUDELAR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMPAR	VINGNO	RUDELAR	BOFLAP
(RP5001)	LARC 8-FT TPT 644 LO-100 CRB[TER(SHIPS)] (BV1VFB)	53.200	1.000	.000	.000
(RP5007)	LARC 8-FT TPT 644 LO-100 CRB[TER(SHIPS)] (BV2VFB)	46.800	2.000	.000	.000
(RP5016)	LARC 8-FT TPT 644 LO-100 CRB[TER(SHIPS)] (BV3VFB)	35.200	3.000	.000	.000



EFFECT OF WING LEADING EDGE SWEEP

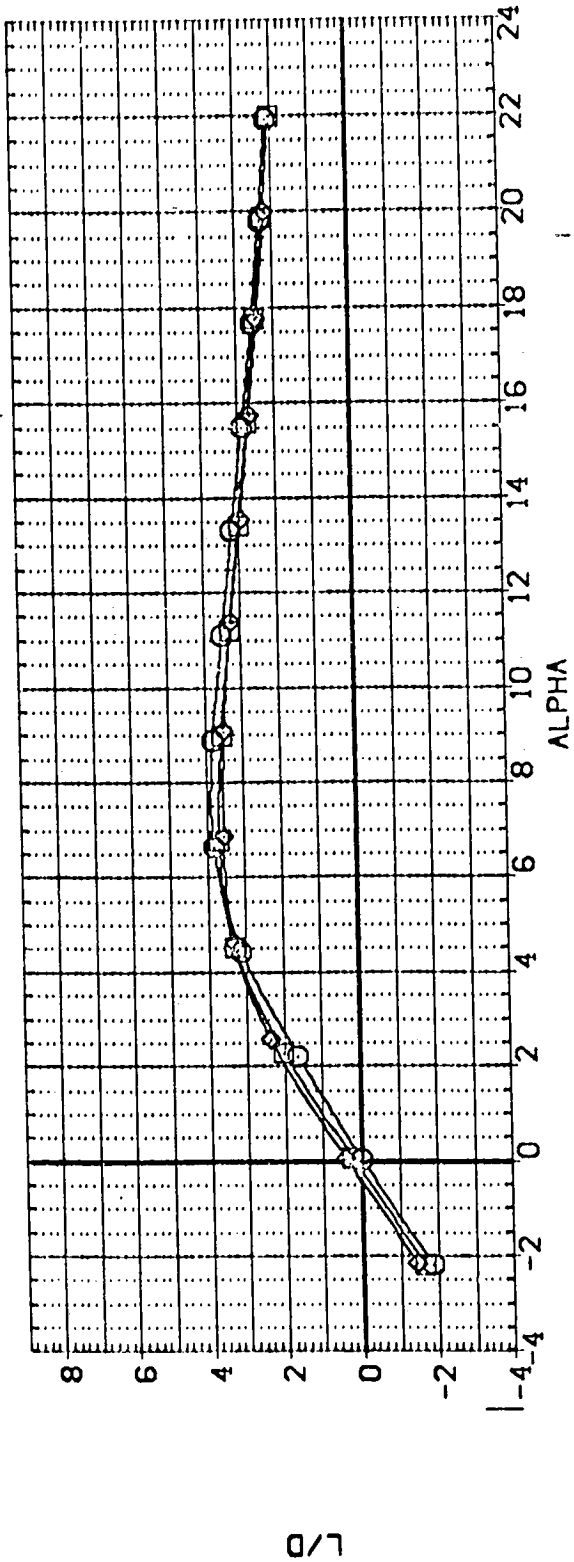
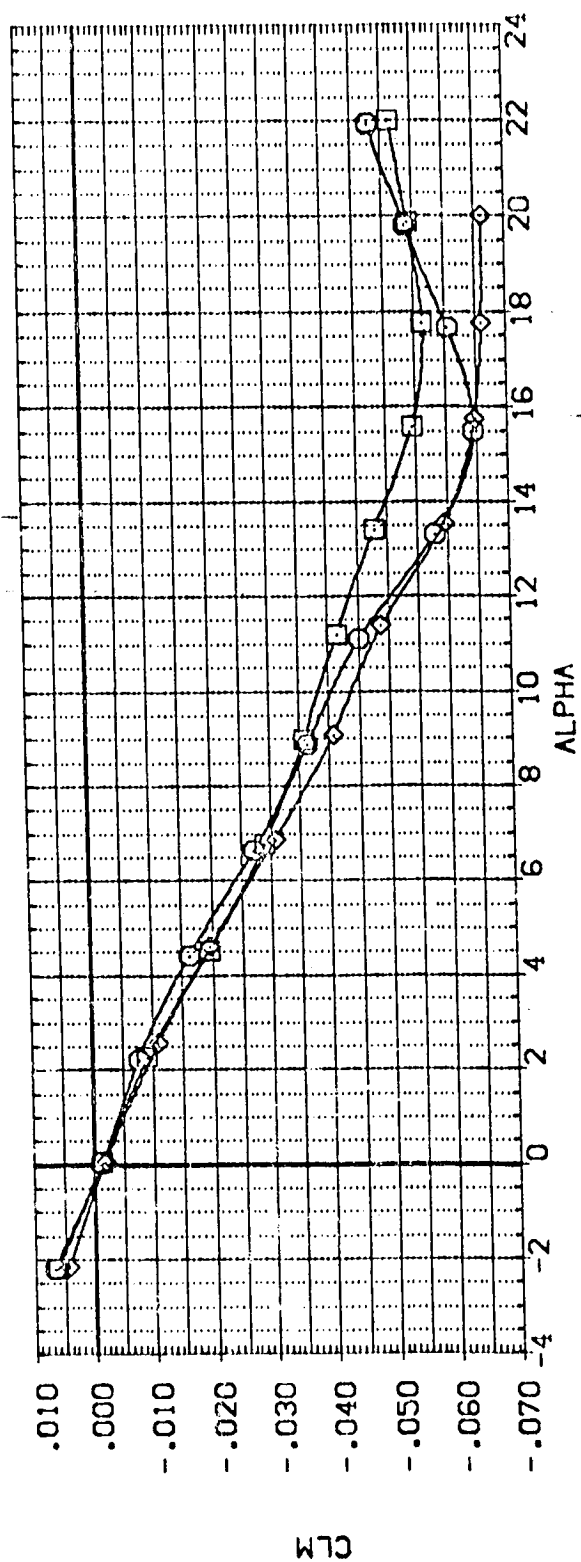
(C) 1964 = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION LAMDAF VINGNO RUOFLR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

(RP5001) LARC 8-FT TPT 644 LC-100 CR31TER(SHIP5) (BV1VFB) 53.200 1.000 .000 .000

(RP5007) LARC 8-FT TPT 644 LC-100 CR31TER(SHIP5) (BV2VFB) 46.800 2.000 .000 .000

(RP5016) LARC 8-FT TPT 644 LC-100 CR31TER(SHIP5) (BV3VFB) 35.000 3.000 .000 .000



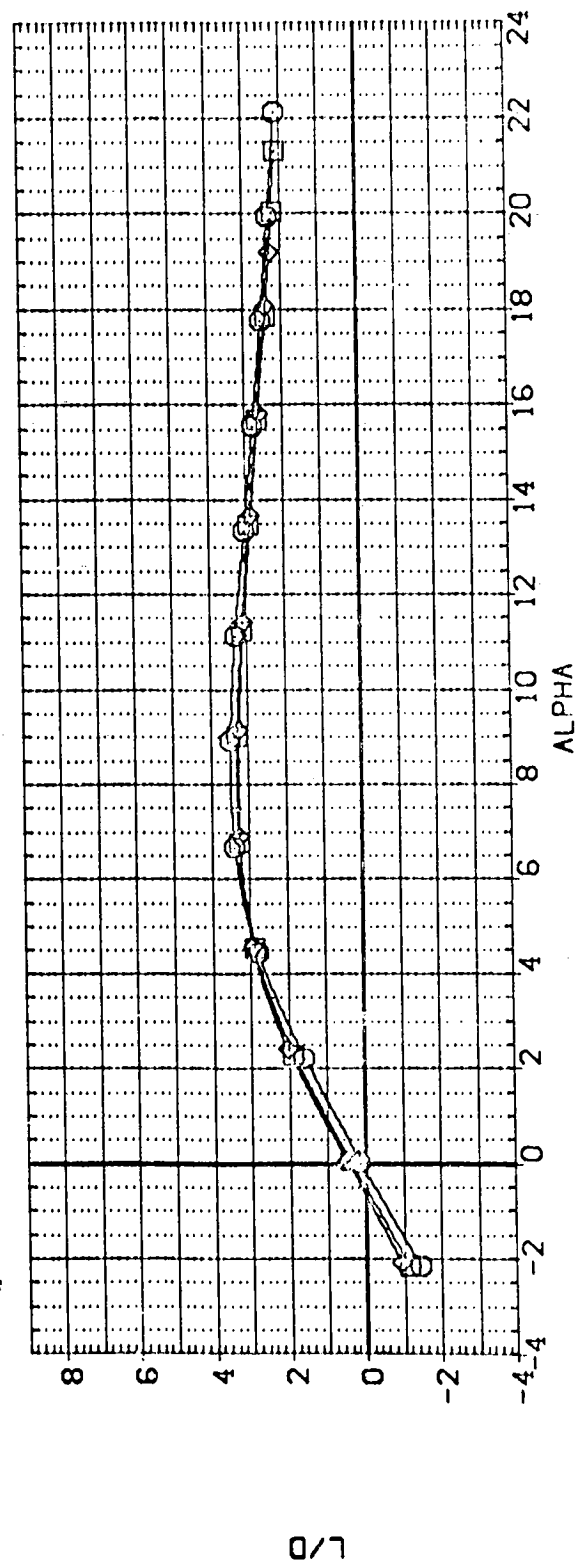
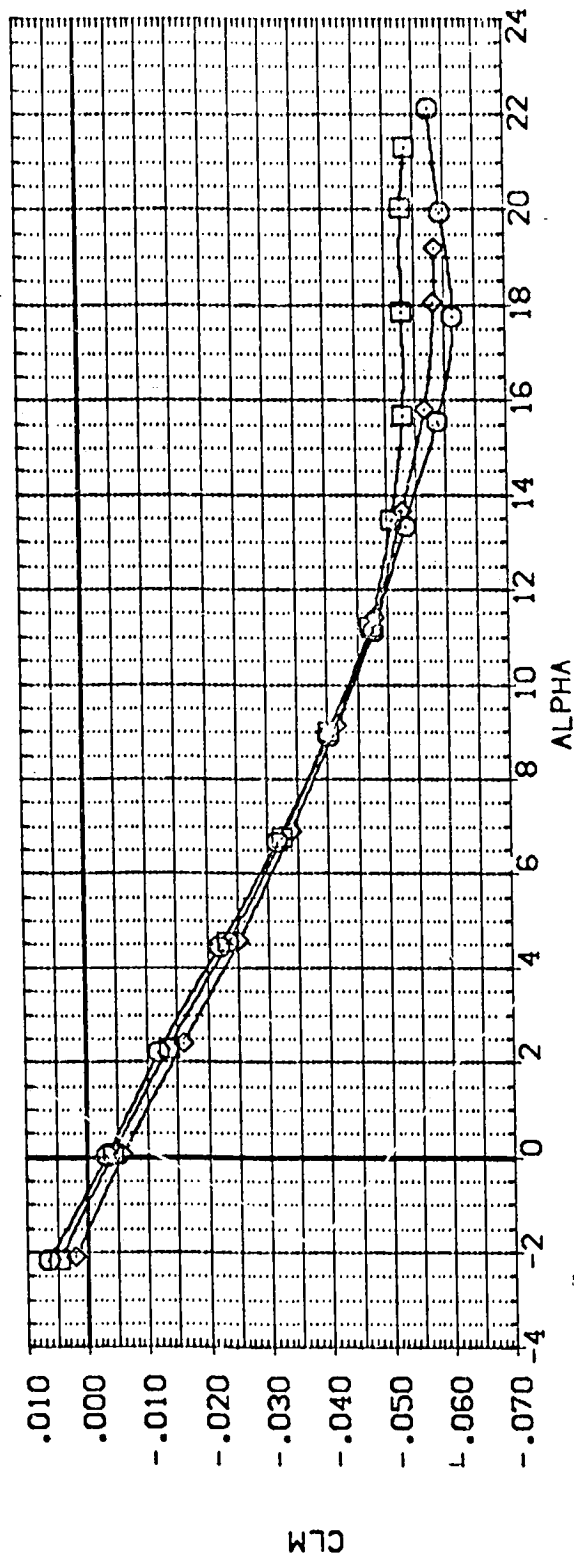
EFFECT OF WING LEADING EDGE SWEEP

(D)MACH = .98



DATA SET SYMBOL CONFIGURATION DESCRIPTION LAYDAF VINGNO RUDELK BDFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAYDAF	VINGNO	RUDELK	BDFLAP
(RP5001)	LARC 8-FT TPT 644 L0-100 CRB1TER(SHIPS)	53.200	1.000	.000	.000
(RP5007)	LARC 8-FT TPT 644 L0-100 CRB2TER(SHIPS)	46.800	2.000	.000	.000
(RP5016)	LARC 8-FT TPT 644 L0-100 CRB3TER(SHIPS)	35.000	3.000	.000	.000



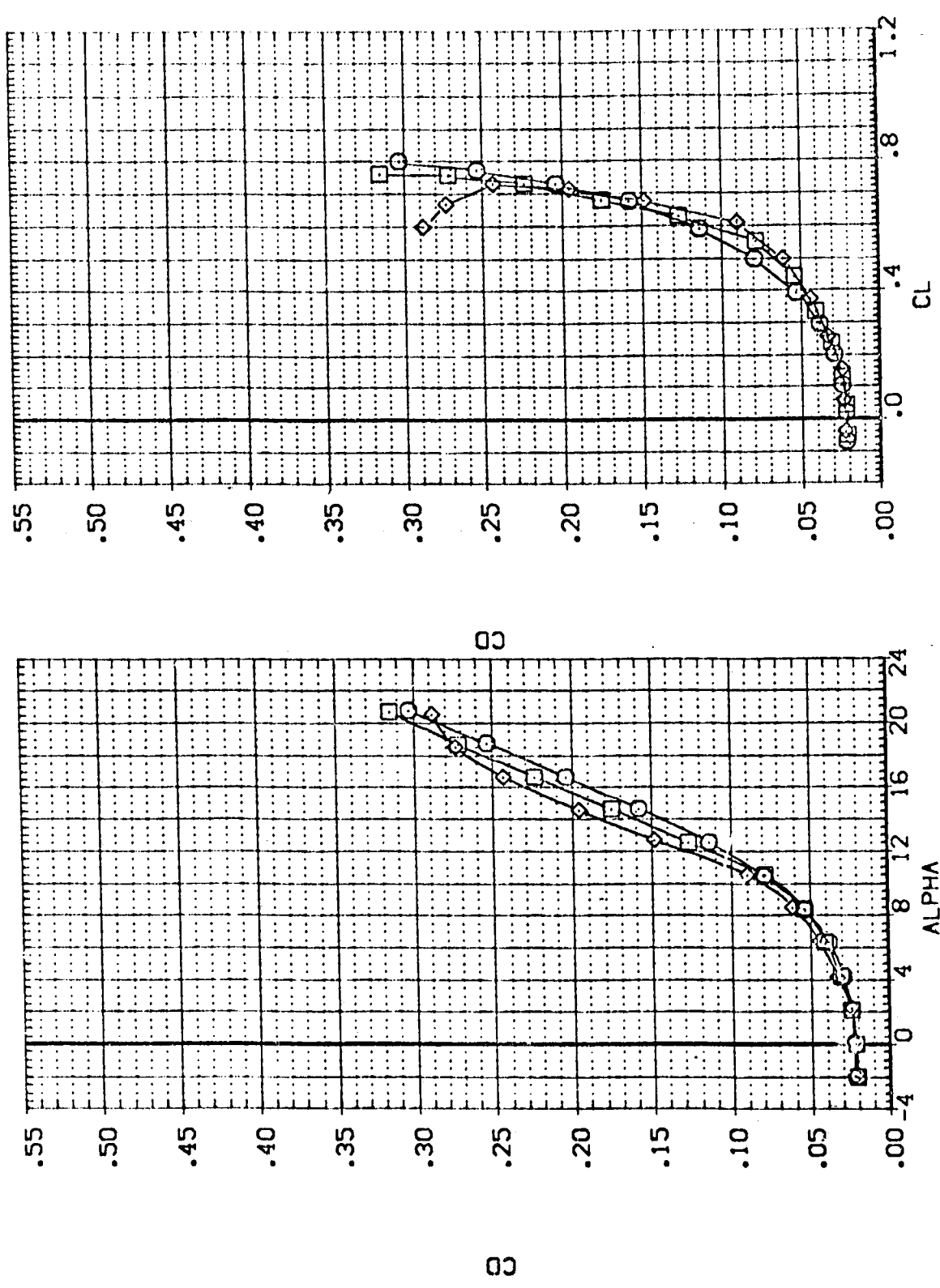
EFFECT OF WING LEADING EDGE SWEEP

(CJ)MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RP50011) LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV1VEB)
 (RP5007) LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV2VEB)
 (RP5016) LARC 8-FT TPT 644 LG-100 CR8ITER(SHIPS) (BV3VEB)

LAMDAF VINGNO RUOFLR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

53.200 1.000 .000 .000
 49.800 2.000 .000 .000
 35.000 3.000 .000 .000



EFFECT OF WING LEADING EDGE SWEEP
 (A)MACH = .35

SEE THE ASSOCIATED DATA
DOCUMENT FOR REFERENCE
CHARACTERISTICS FOR
INDIVIDUAL DATASETS

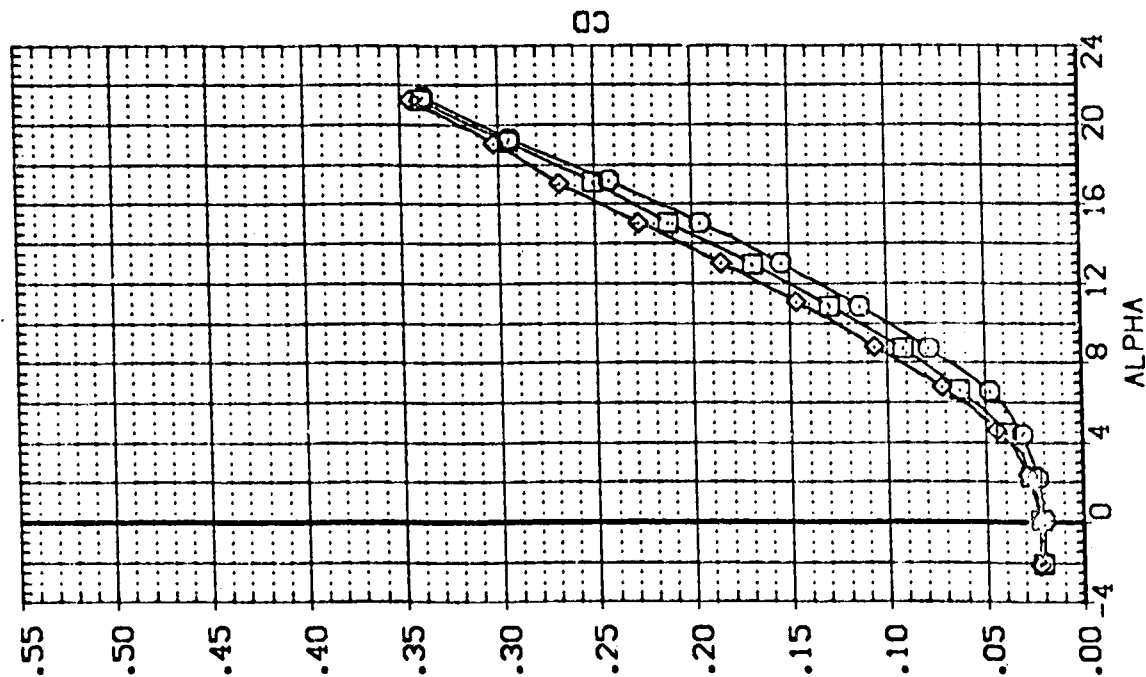
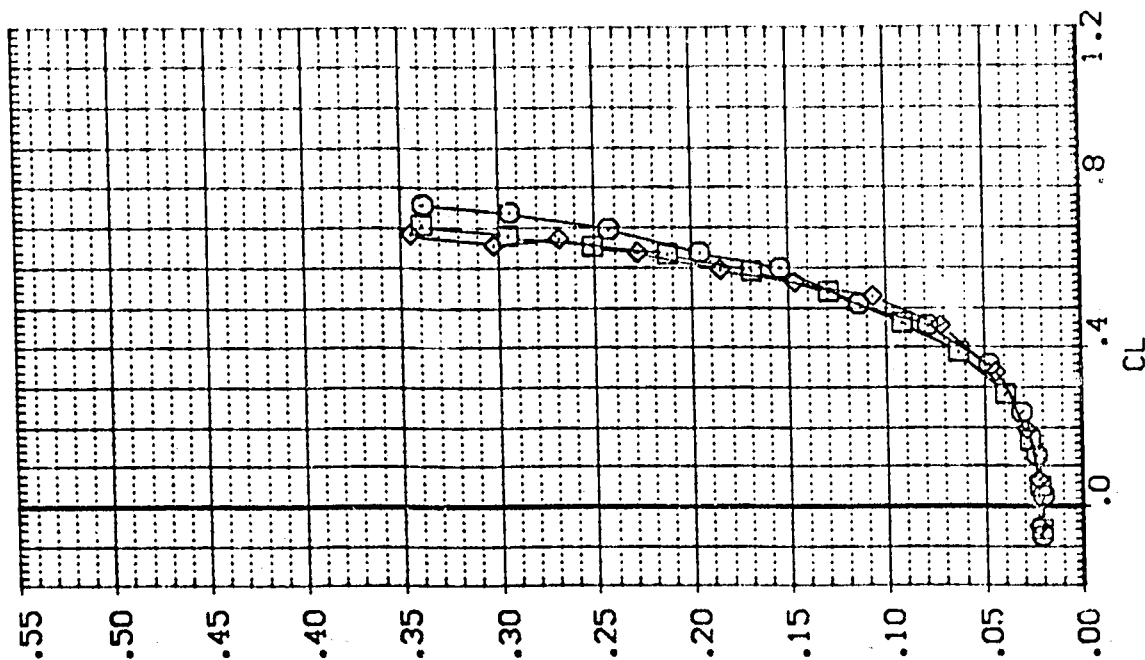
BOFLAP .000
RUDFLR .000
VINGNO 1.000
2.000
3.000

LAMDAF 53.200
46.800
35.000

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV1VFB)
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV3VFB)

DATA SET SYMBOL
(RP5001)
(RP5007)
(RP5016)



EFFECT OF WING LEADING EDGE SWEEP

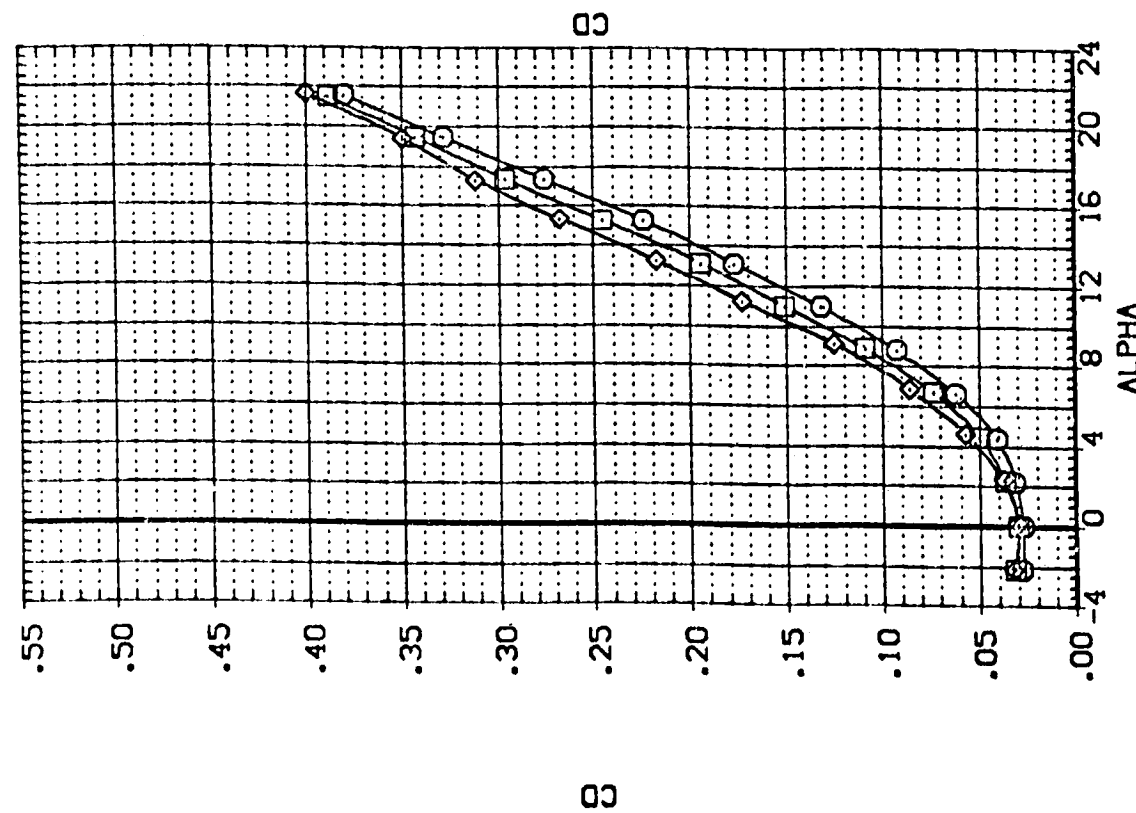
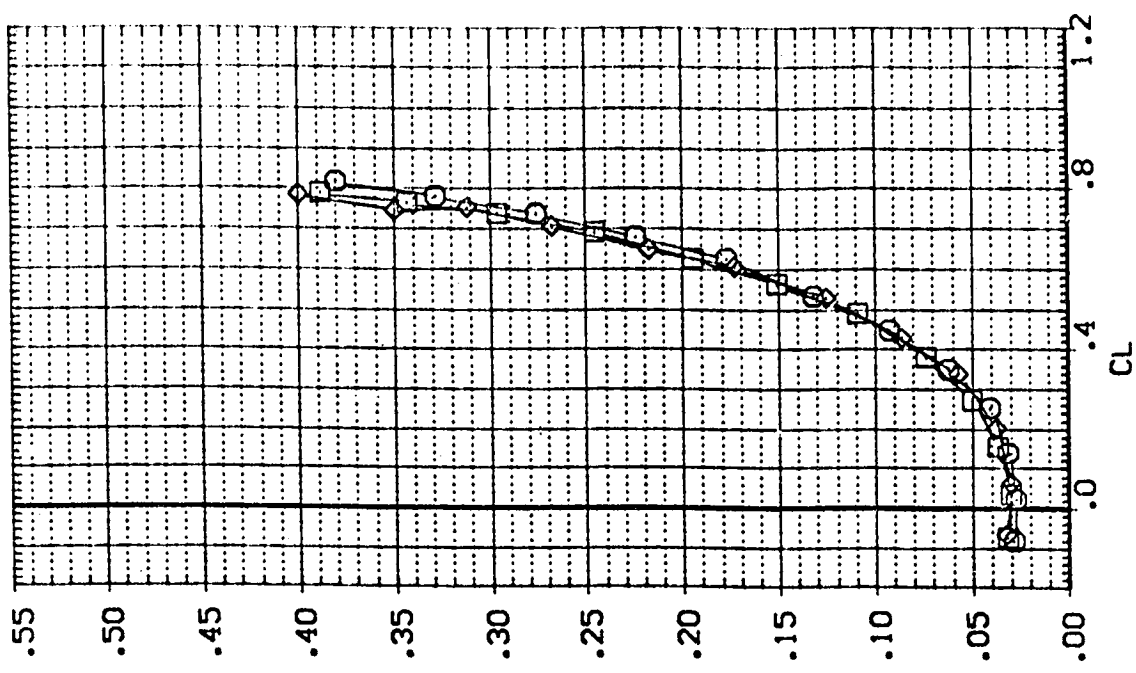
(B)MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION LARC 8-FT TPT 644 L0-100 CRB1TER(SHIPS) (BV1VFB) LAYDAF VINGNO RUDELIR BOFLAP SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

(RP5001) LARC 8-FT TPT 644 L0-100 CRB1TER(SHIPS) (BV2VFB) 53.200 1.000 .000 .000

(RP5007) LARC 8-FT TPT 644 L0-100 CRB1TER(SHIPS) (BV3VFB) 46.800 2.000 .000 .000

(RP5016) LARC 8-FT TPT 644 L0-100 CRB1TER(SHIPS) (BV3VFB) 35.000 3.000 .000 .000



EFFECT OF WING LEADING EDGE SWEEP

(C)MACH = .90



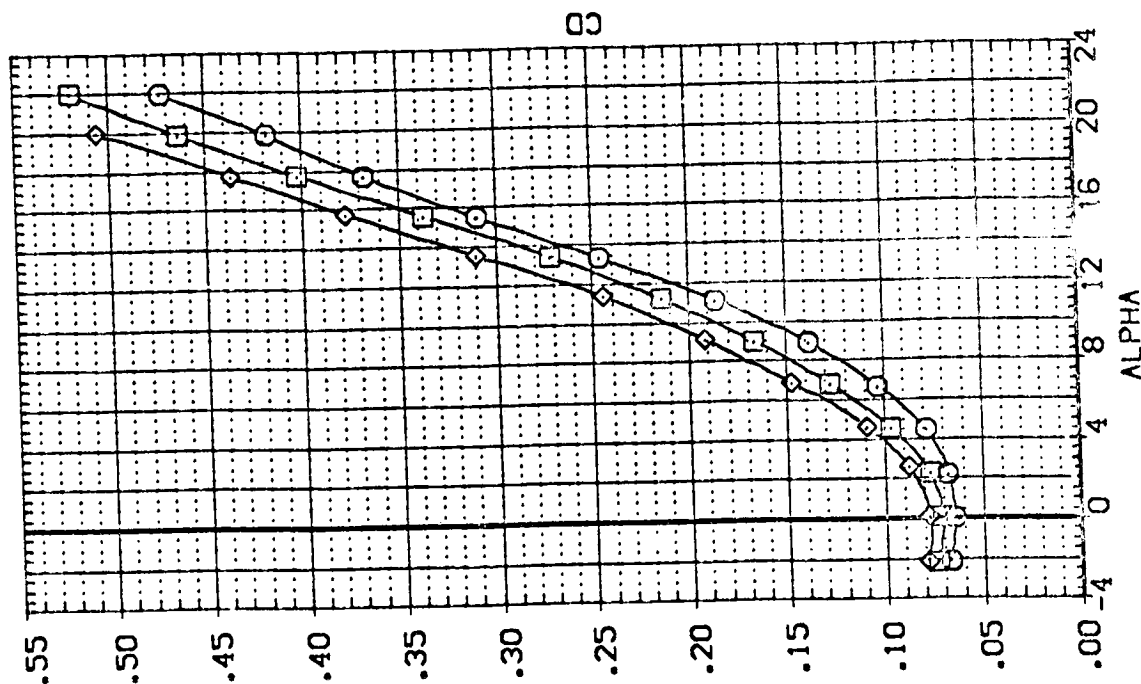
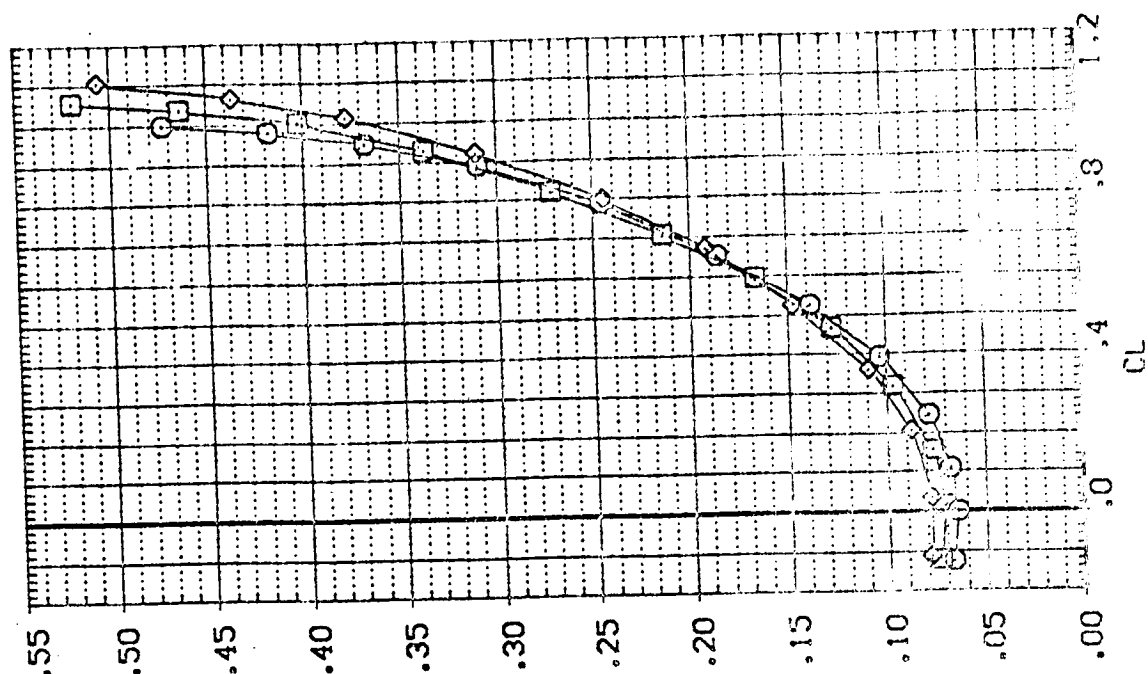
SEE THE ASSOCIATED DATA DOCUMENT FOR REFERENCE CHARACTERISTICS FOR INDIVIDUAL DATASETS

BOFLAP .000
RUEFLR .000
WINGW 1.000
LAWAF 53.200
46.800
35.000

CONFIGURATION DESCRIPTION

LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (SV1VF8)
LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (SV2VF8)
LARC 8-FT TPT 644 LG-100 CR81TER(SHIPS) (SV3VF8)

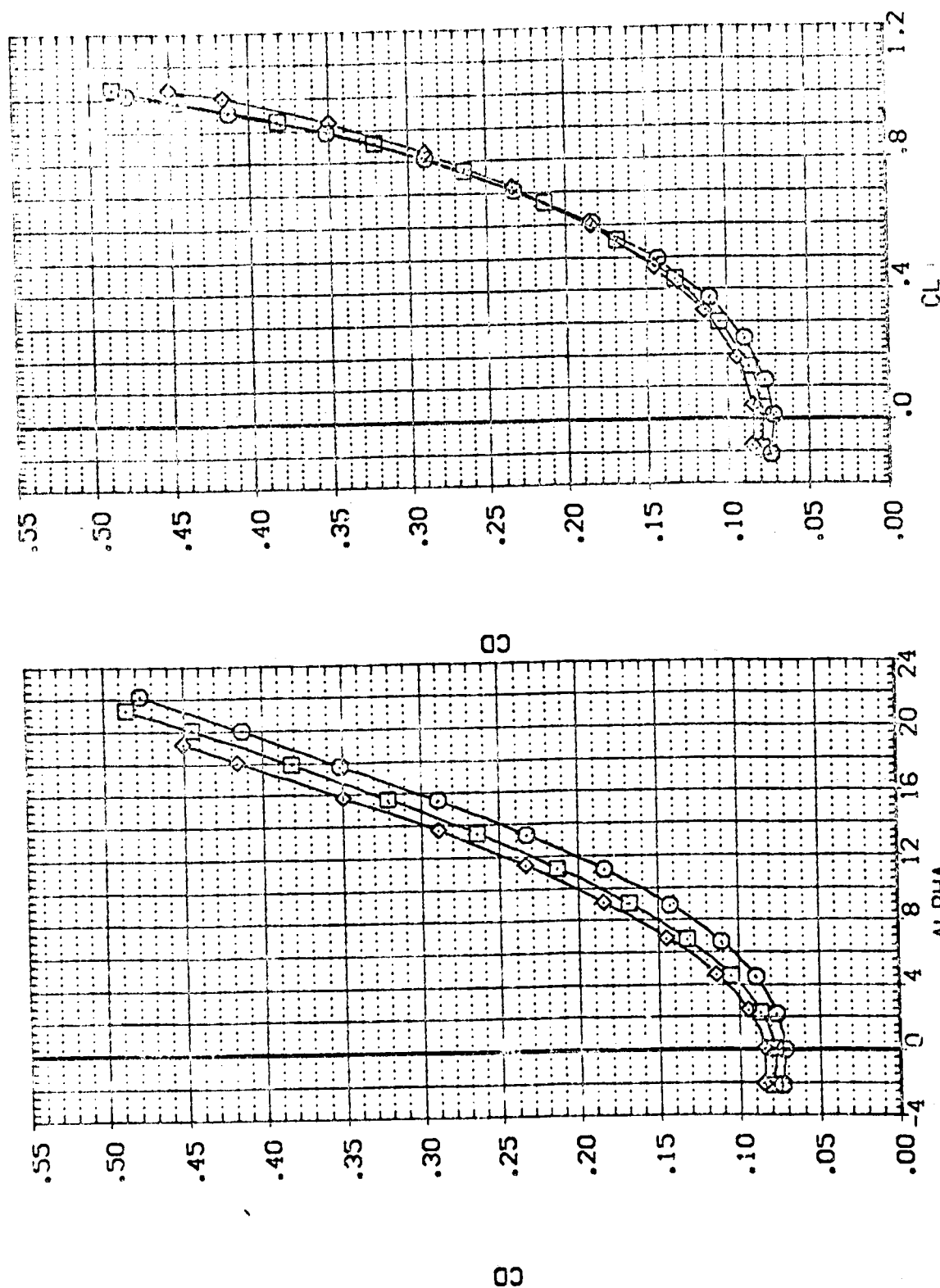
DATA SET SYMBOL
(RPS001)
(RPS007)
(RPS016)



EFFECT OF WING LEADING EDGE SWEEP

(O)MACH = .98

DATA SET SYMBOL	DESCRIPTION	LRD/AF	VIN/NO	BUO/3	SEE THE INSTRUCTIONS ON THE BACK OF THIS CARD
LA9C 84T 1P1 844	LC-100 C81 2(SHIPS)	53,200	1,000	1,000	LA9C 84T 1P1 844
LA9C 84T 1P1 844	LC-100 C81 2(SHIPS)	46,600	1,000	1,000	LA9C 84T 1P1 844
LA9C 84T 1P1 844	LC-100 C81 2(SHIPS)	35,000	1,000	1,000	LA9C 84T 1P1 844



EFFECT OF WING LEADING EDGE SWEEP

$$(E)_{\text{MACH}} = 1.20$$



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

SYMBOL

MACH
.349
.800
.900
.980
1.200

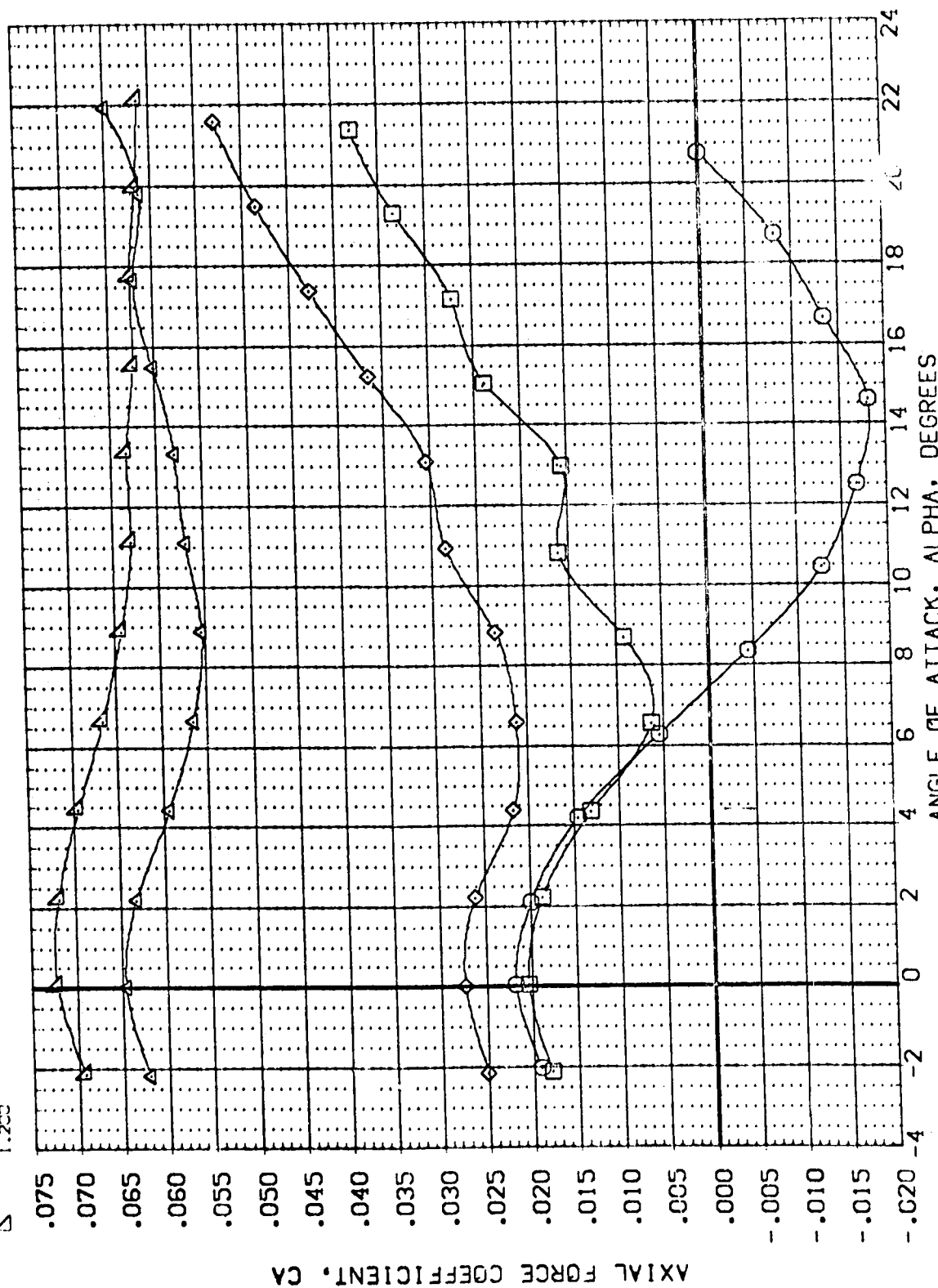
BETA
LAMDAF
BCFLAP

PARAMETRIC VALUES
.000
53.200
.000

WINGNO
ELEVTR
RUDFLR

1.000
.000
.000

REFERENCE INFORMATION
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IREF 29.5100
BREF 19.7156
XMRP 16.8633
YMRP .0000
ZMRP .0000
SCALE .0188



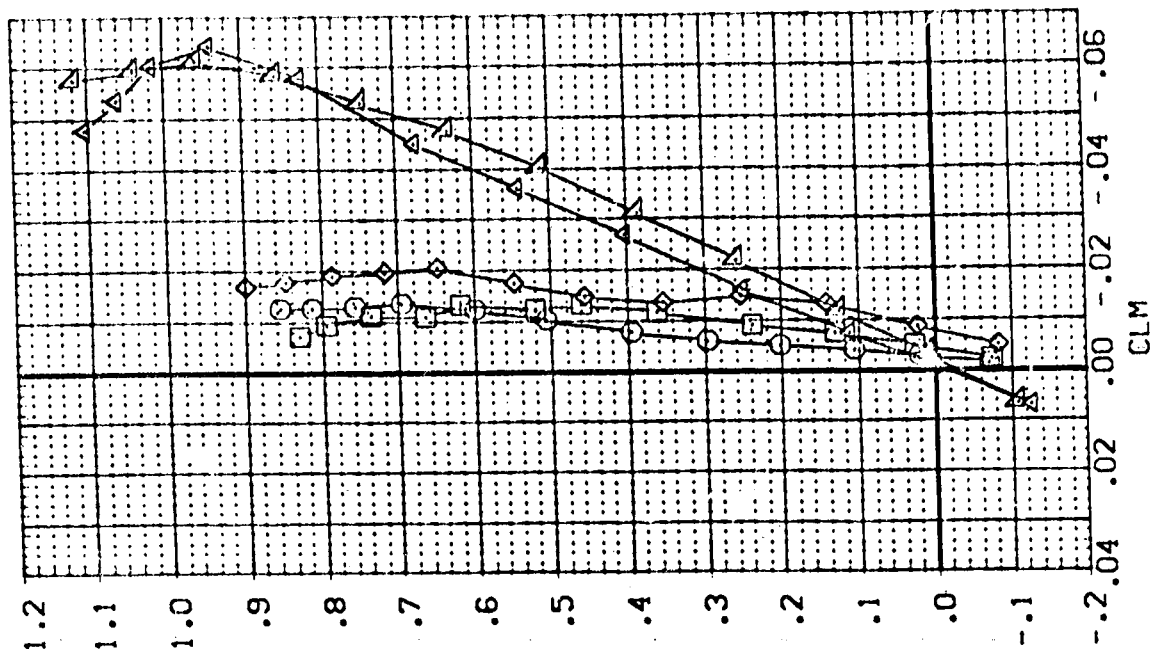
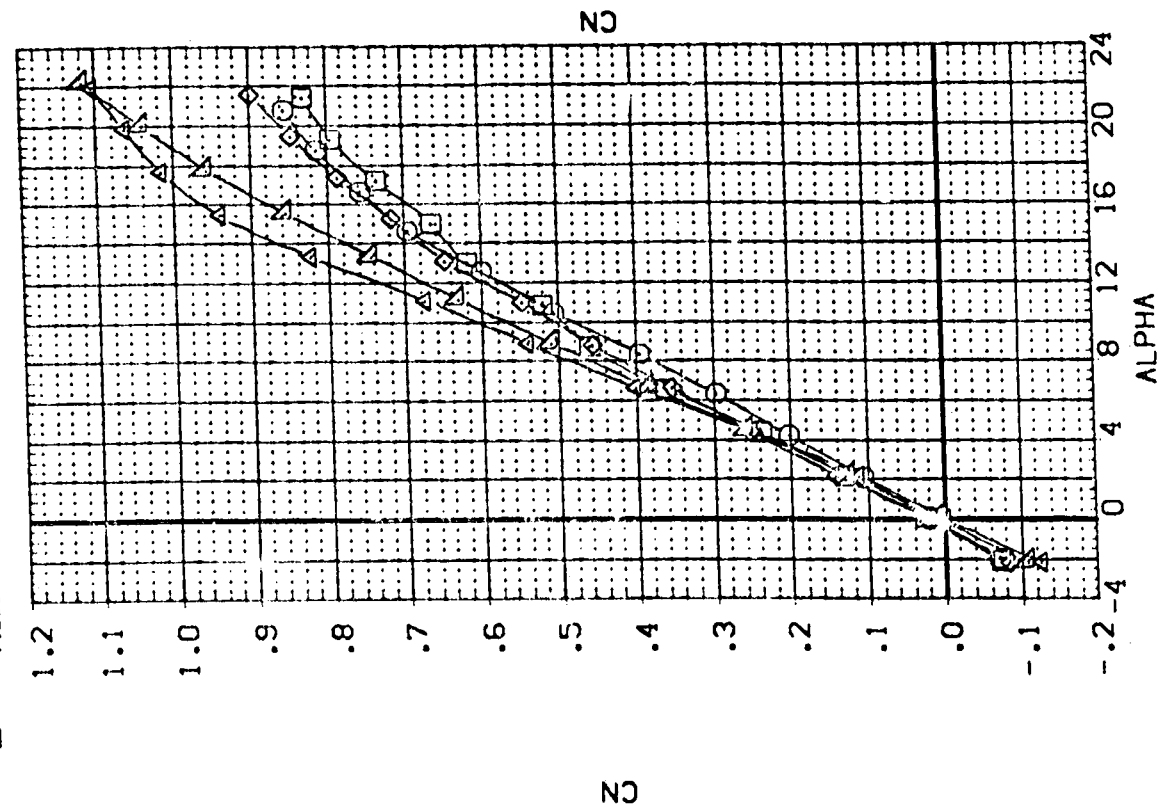
EFFECT OF MACH NUMBER (B W1 V FB)

100-100000

	PARAMETRIC VALUES
BETA	.000
LAMDIF	53.200
ROFLAP	.000
	RJDFLR
	1.000
	.000
	.000
	.980
	1.200

PARAMETRIC VALUES
.000 VINGNO
53.200 ELEVTR
.000 R.CELR

	REFERENCE INFORMATION
SREF	:75.7376
REF	:75.5100
BREF	:75.7155
XREF	:75.9633
daz	:0000
zaz	:0000
SCA-3	:0188





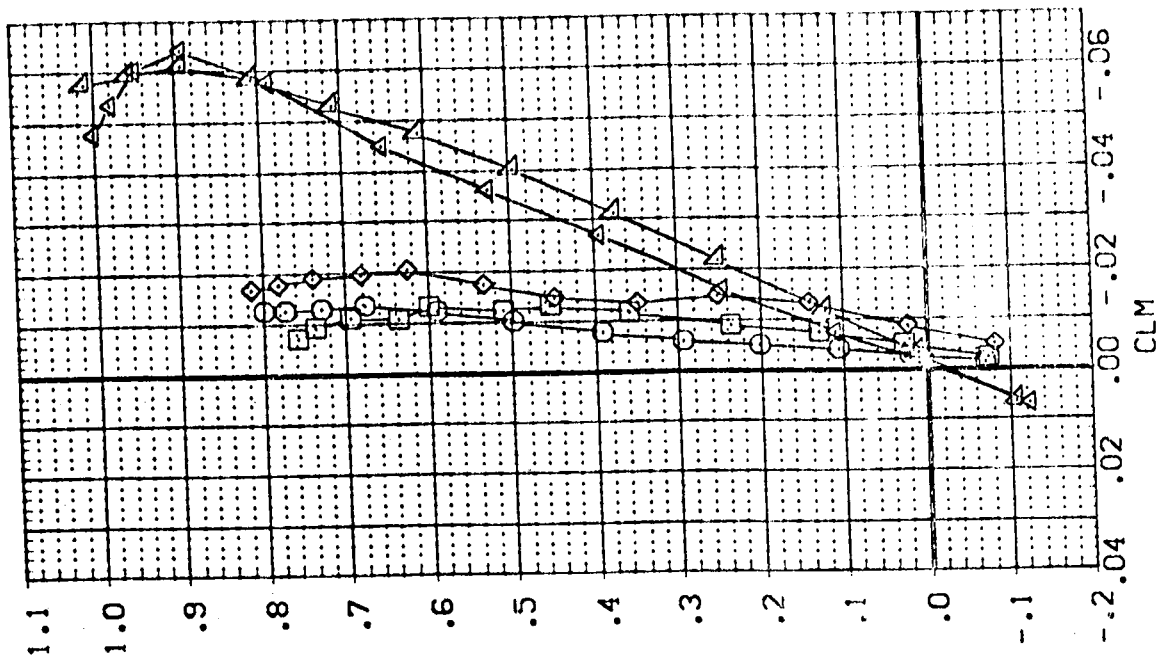
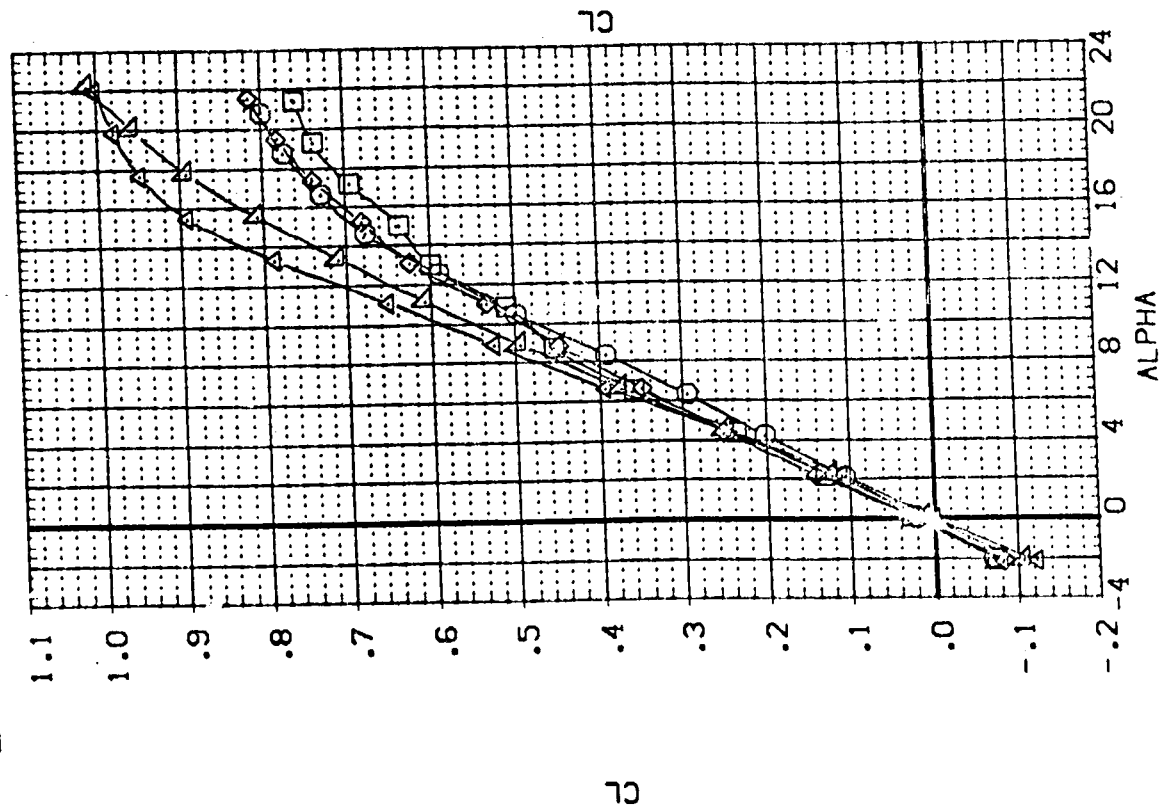
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

SYMBOL
 ○ □ ◇ △

MACH
 .349
 .900
 .900
 .980
 1.200

PARAMETRIC VALUES
 BETA .000 WINGNO 1.000
 LAMDAF 53.200 ELEVTR .000
 BCLAP .000 RUDELTR .000

REFERENCE INFORMATION
 SREF 175.7376 SQ IN
 LREF 25.5100 INCHES
 BREF 19.7155 INCHES
 XGRP 16.8533 INCHES
 YGRP .0000 INCHES
 ZGRP .0000 INCHES
 SCALE 10.188



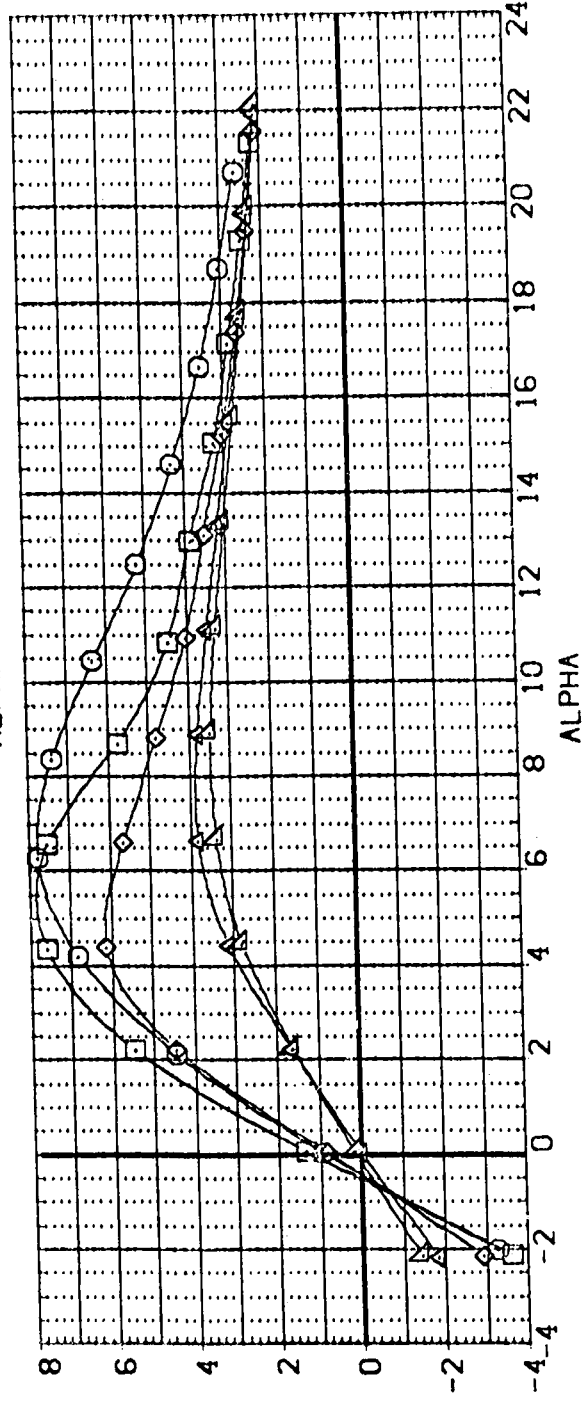
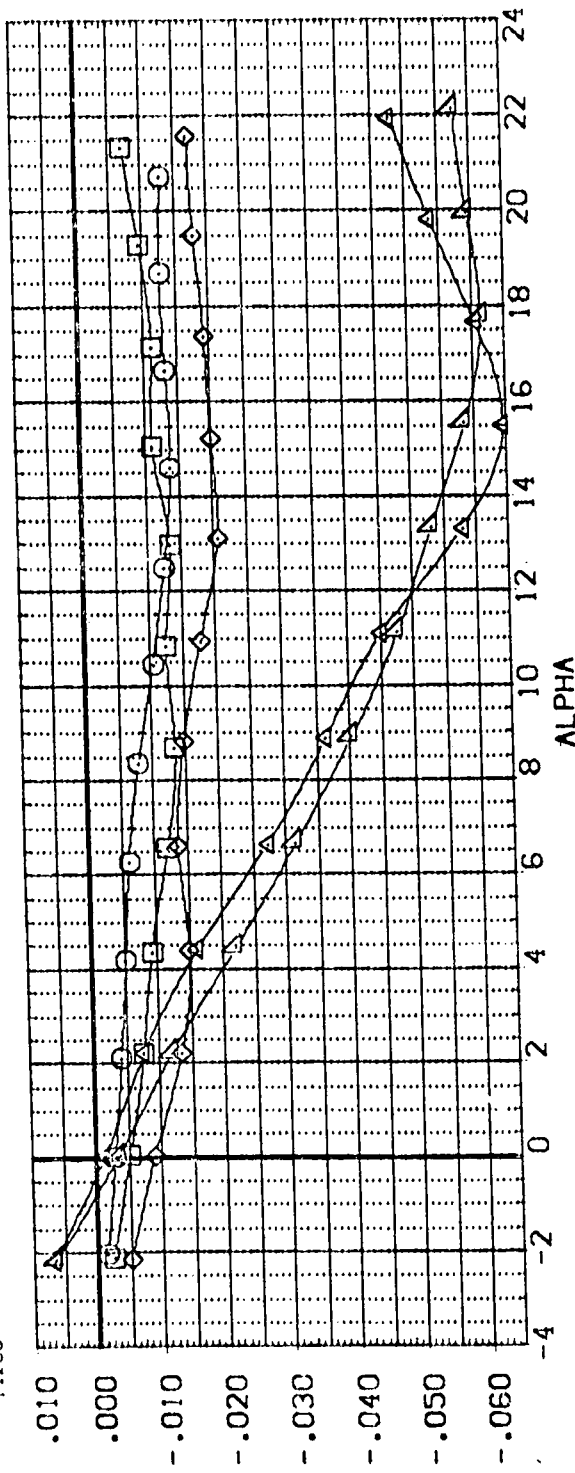
EFFECT OF MACH NUMBER (B W1 V FB)

REFERENCE INFORMATION
 SREF 175.7375
 XREF 20.5100
 YREF 16.8633
 XMOO 0.0000
 YMOO 0.0000
 SCALE 0.188

PARAMETRIC VALUES
 BETA .000
 WINGNO 1.000
 LAMDAF 53.200
 ELEVTR .000
 BCFLAP .000
 RUOFLR .000

SYMBOL
 O
 I
 D
 A

MACH
 .349
 .800
 .900
 .980
 1.200



EFFECT OF MACH NUMBER (9 W1 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5001)

SYMBOL
□
◇
△

MACH
.349
.800
.900
.980
1.200

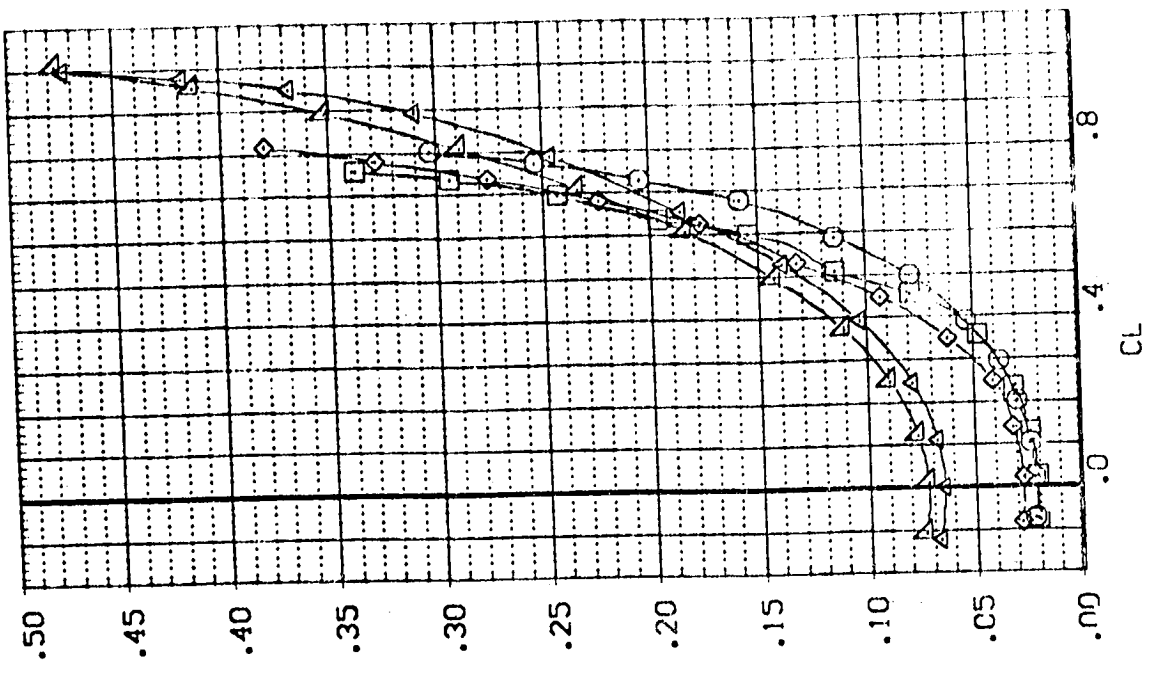
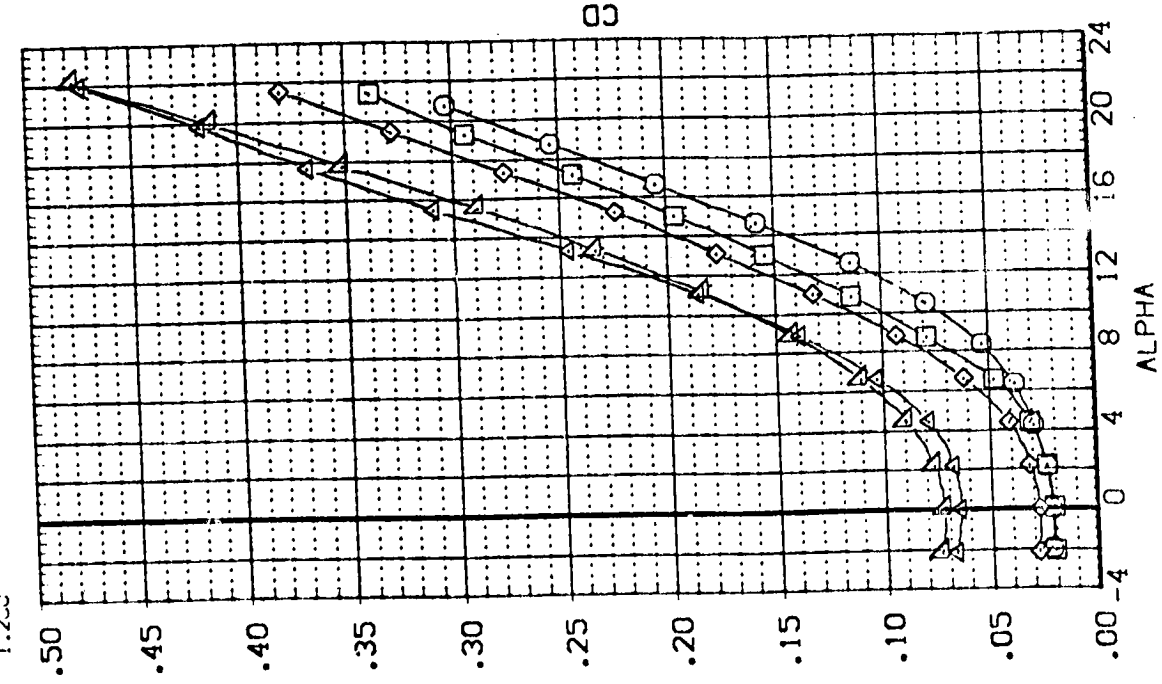
BETA
LAMCAF
BCFLAP

PARAMETRIC VALUES
.000
53.200
.000
WINGNO
ELEVTR
RJDFLR

1.000
.000
.000

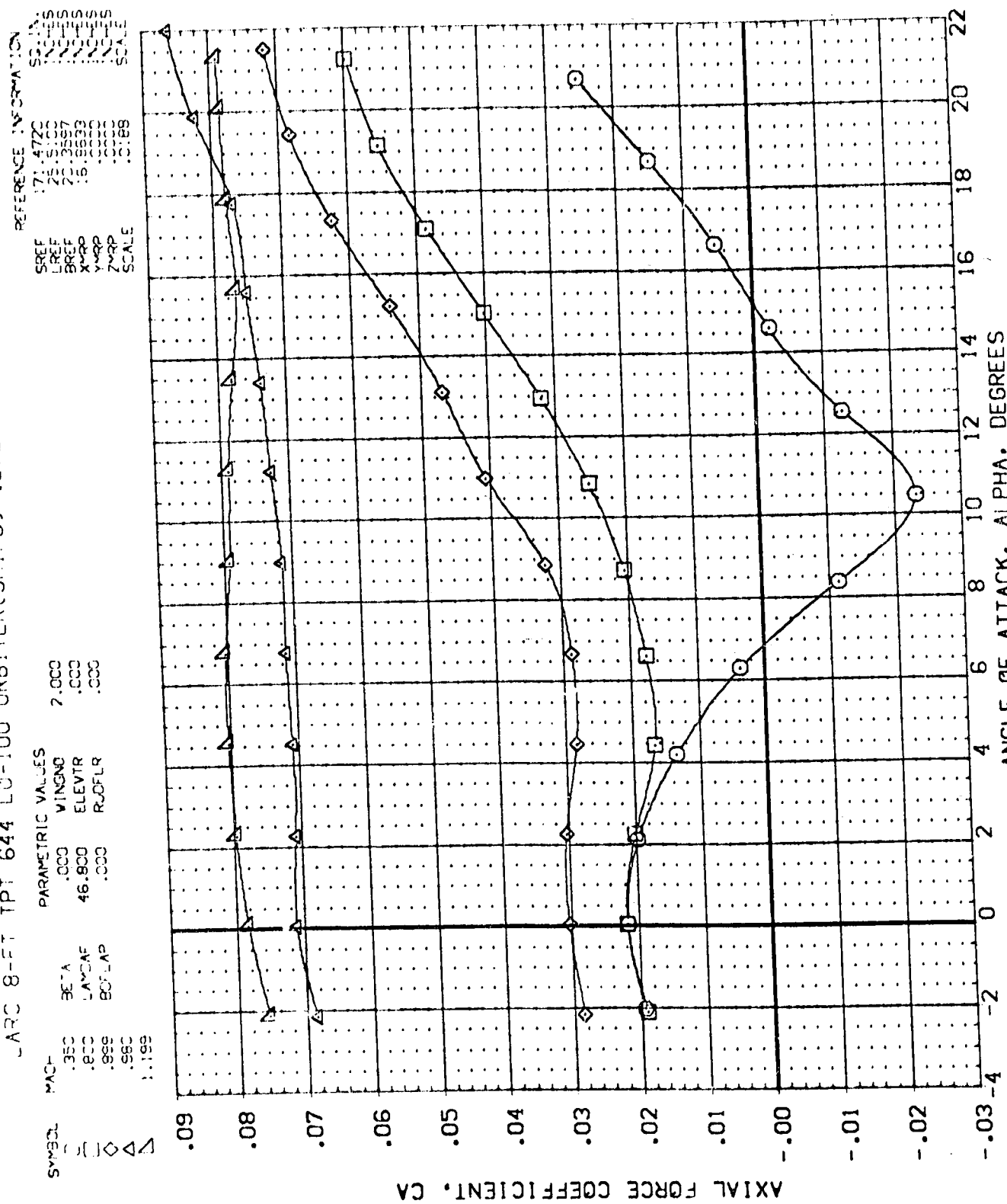
REFERENCE INFORMATION
SPREF 175.7376
LREF 25.5100
BREF 19.7156
XMRP 16.8832
YMRP .0000
ZMRP .0000
SCALE .0188

SCALING
INCHES
INCHES
INCHES
INCHES
SCALE



EFFECT OF MACH NUMBER (B W1 V FB)

1111
1112
1113
1114



EFFECT OF MACH NUMBER (B W2 V FB)



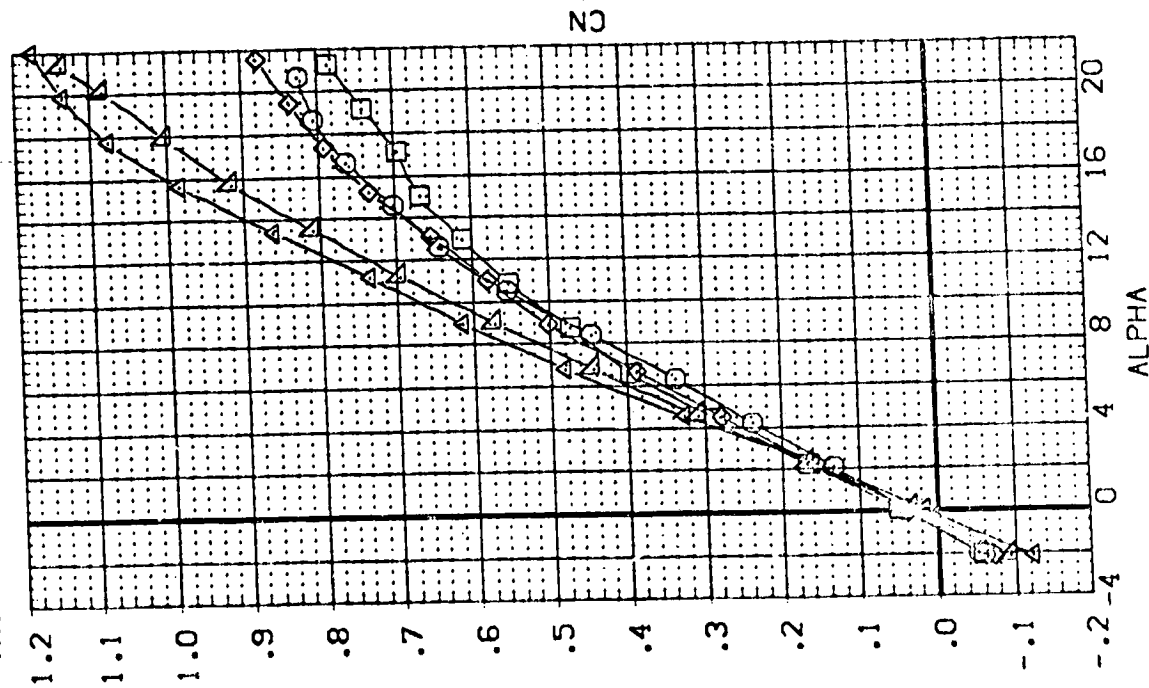
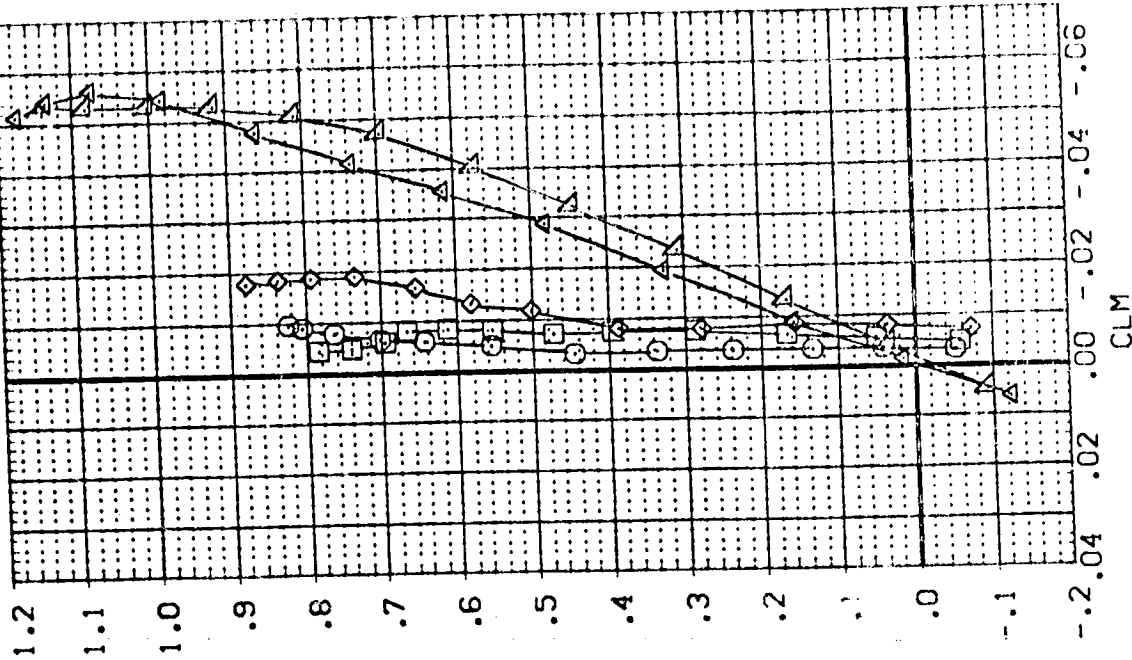
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

SYMBOL
 ○ □ ◇ △ ▽

MACH
 .35C
 .80C
 .899
 .98C
 1.199

PARAMETRIC VALUES
 BETA .000 WINGNO 2.000
 LAMDAF 46.800 ELEVTR .000
 SCFLAP .000 RUDFLR .000

REFERENCE INFORMATION
 SREF 171.4720 SCALIN.
 LREF 25.5100 INCHES
 BREF 20.5597 INCHES
 XMRP 16.8533 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188



EFFECT OF MACH NUMBER (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

SYMBOL
 ○ □ ◇ △

MACH
 .350
 .800
 .899
 .980
 1.199

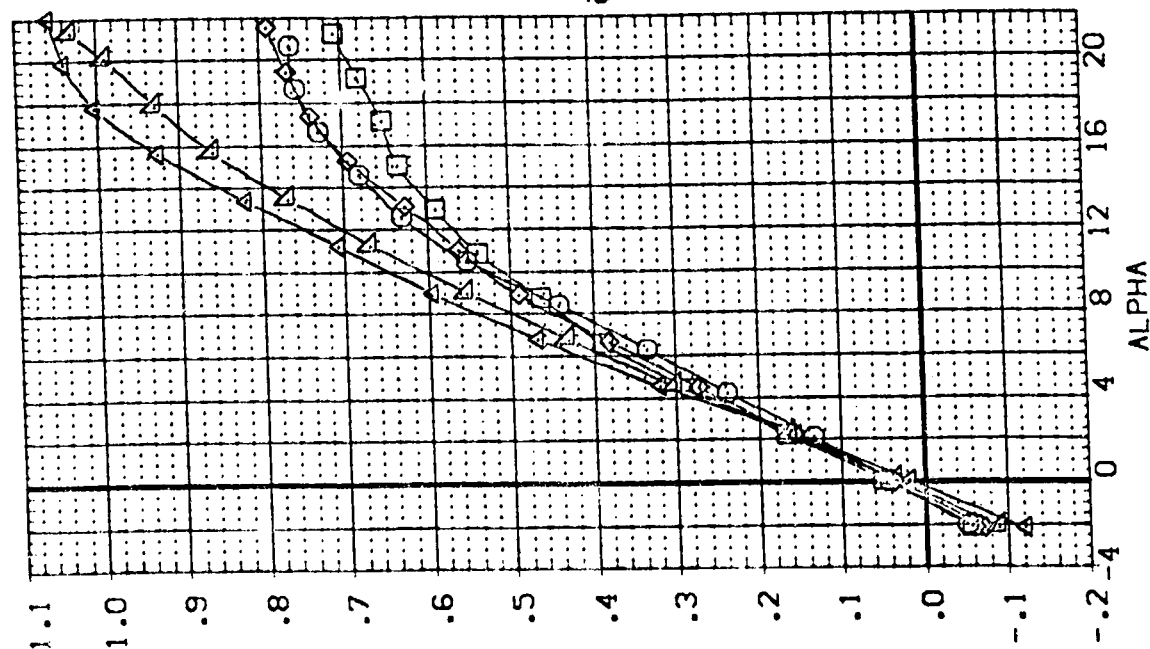
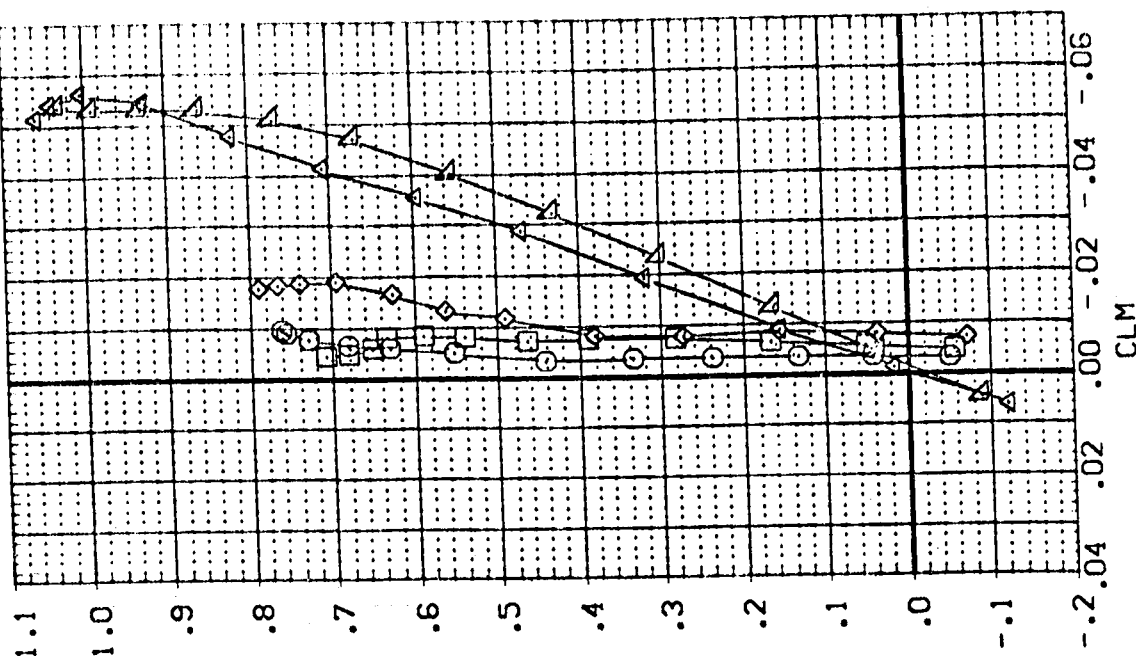
PARAMETRIC VALUES
 .000 WINGC 2.000
 46.800 ELEVIR .000
 .000 RUDFLR .000

BETA
 .000
 .000
 .000

LAMDAF
 .000
 .000
 .000

SCALE
 .0188

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3557
 XREF 16.8633
 YREF 10.0000
 ZREF 10.0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W2 V FB)



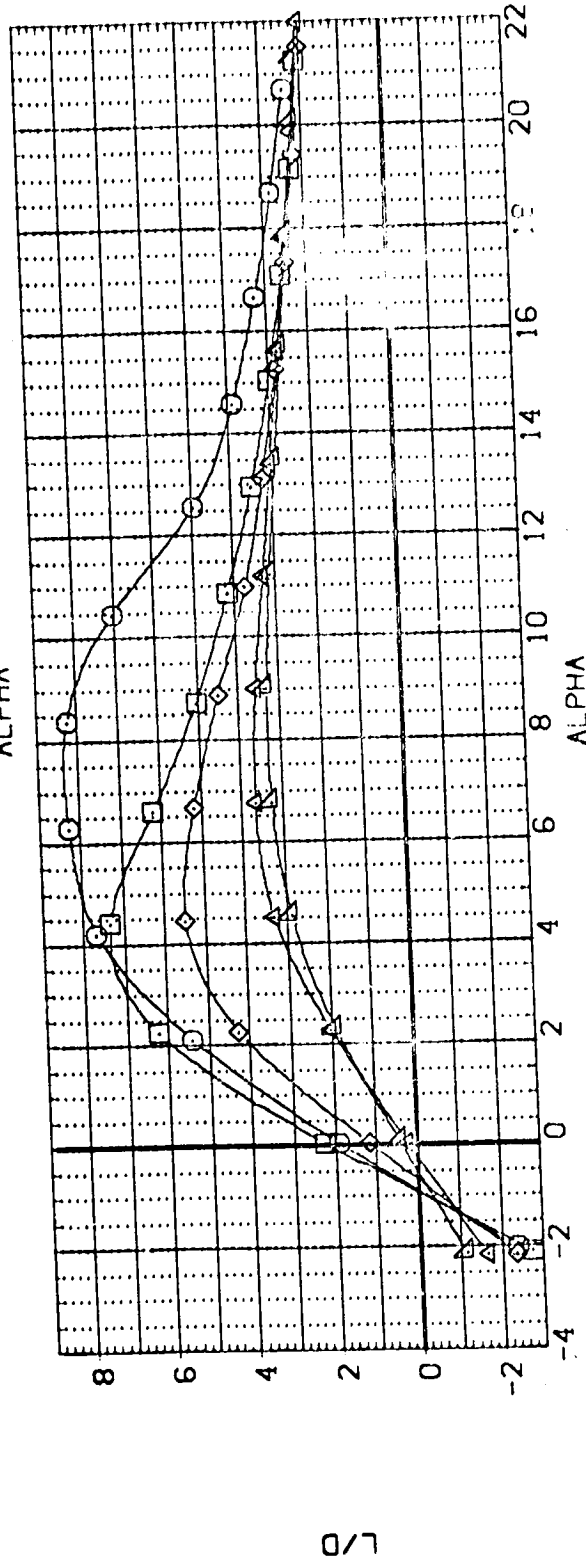
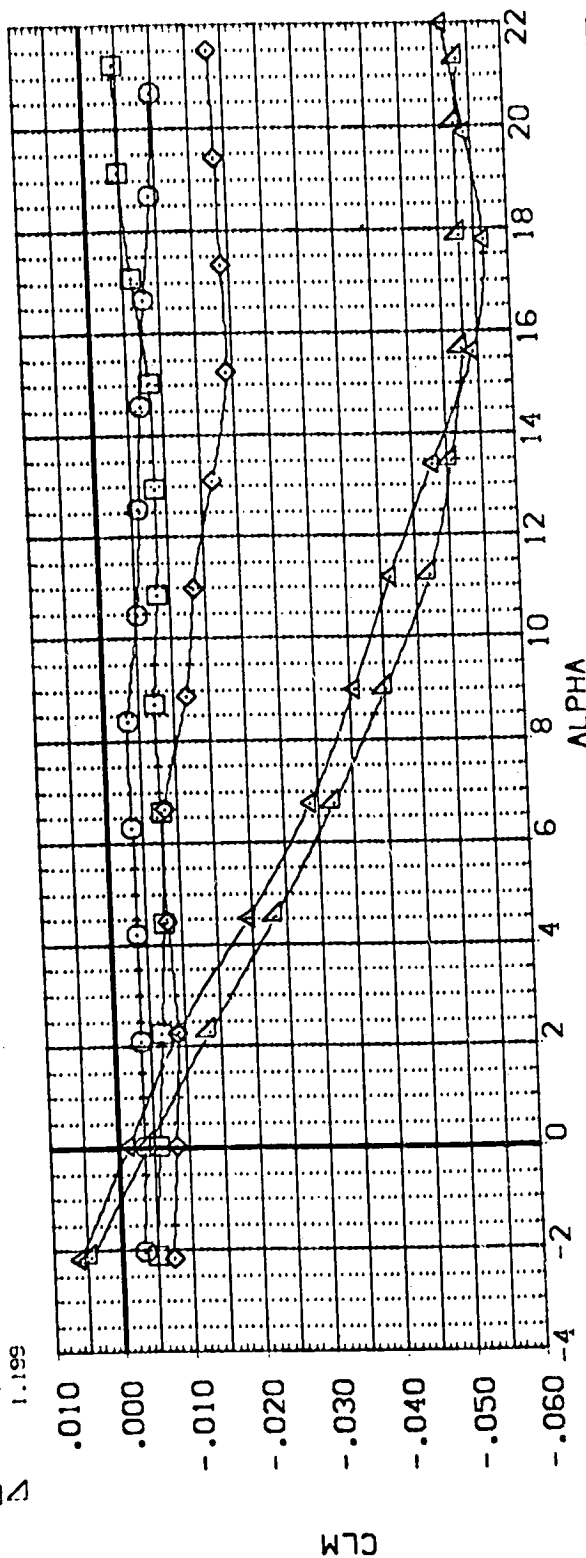
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

SYMBOL
 ○ □ ◇ △

MACH
 .350
 .800
 .899
 .980
 1.199

PARAMETRIC VALUES
 BETA .000
 LAMDAF 46.800
 BCFLAP .000
 VINGNO 2.000
 ELEVTR .000
 RJDFLR .000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.3597
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W2 V FB)

LARC 8-F TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5007)

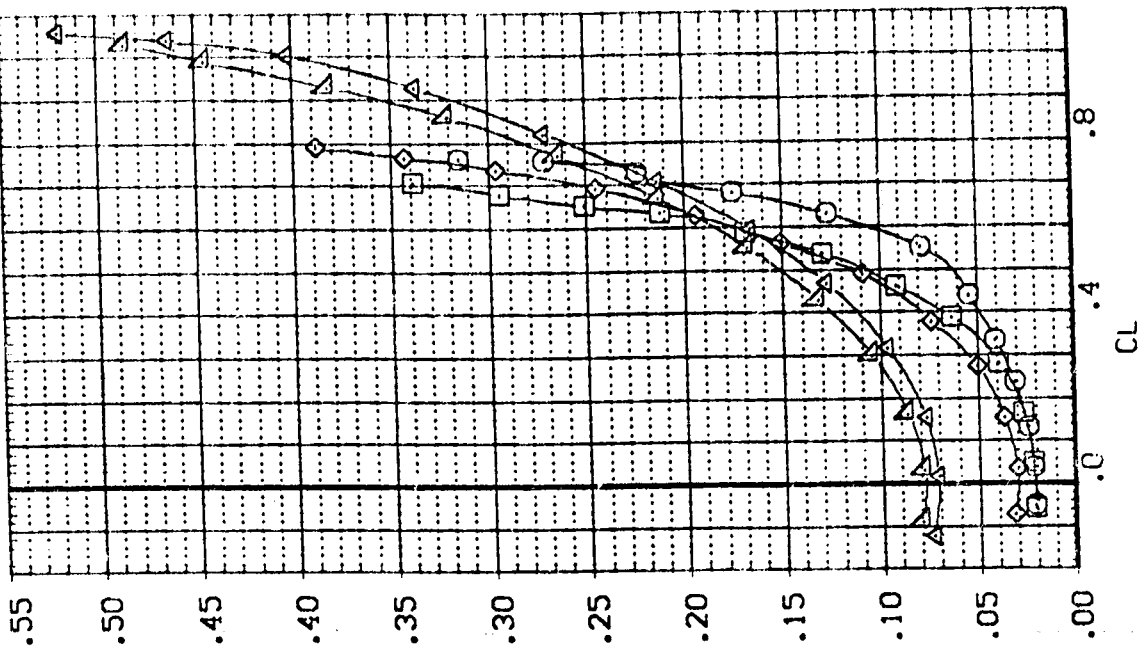
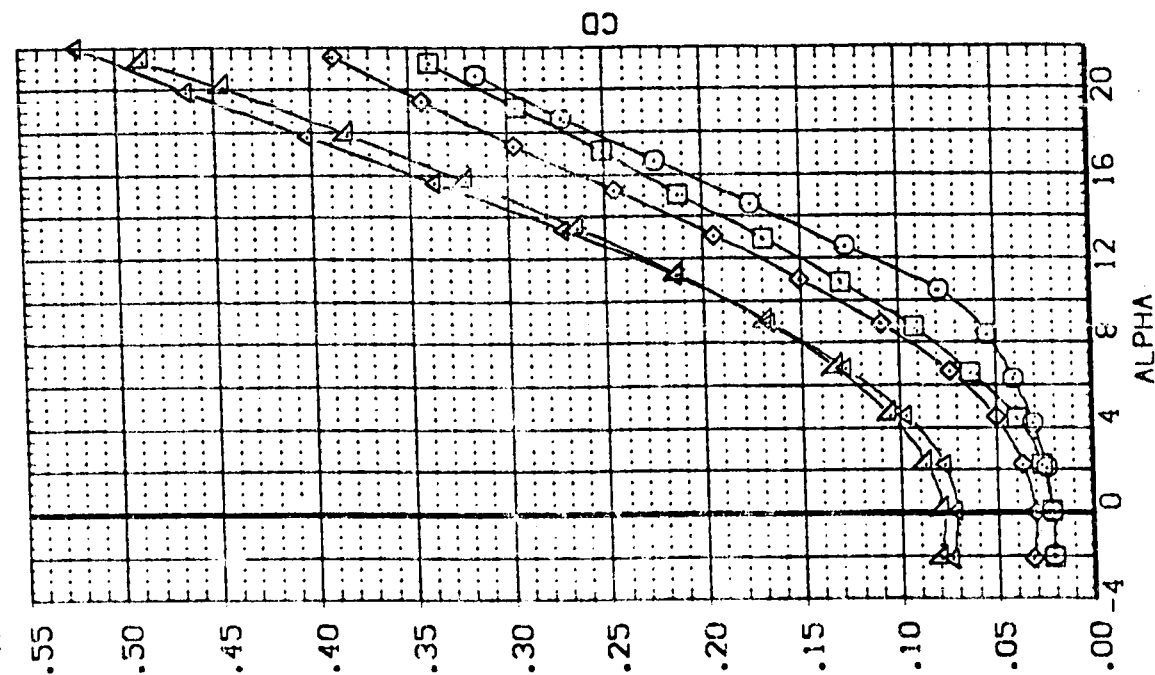
SYMBOL
 ○
 □
 △
 ▽

MACH
 .350
 .800
 .989
 .990
 1.199

PARAMETRIC VALUES
 BETA .000
 WINGNO 2.000
 ELEVIR .000
 RUDFLR .000

WINGNO 2.000
 ELEVIR .000
 RUDFLR .000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 22.3997
 XMRP 16.8833
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W2 V FB)

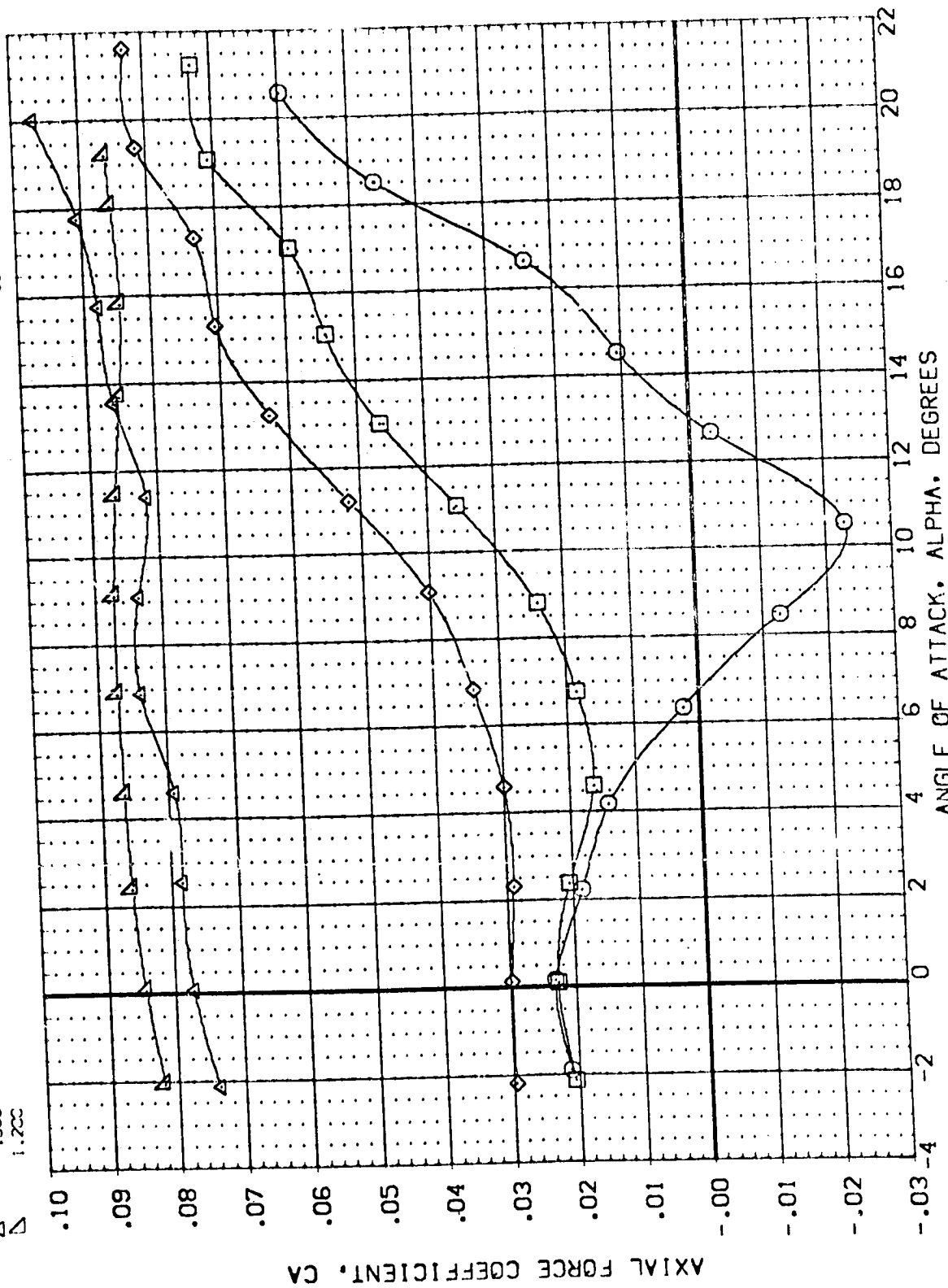


LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

REFERENCE INFORMATION
SREF 173.1312
LREF 25.5100
BREF 20.9086
XMRP 16.8533
YMRP .0000
ZMRP .0000
SCALE .0188

SYMBOL MACH
□ .349
◇ .758
△ .899
▽ .982
1.200

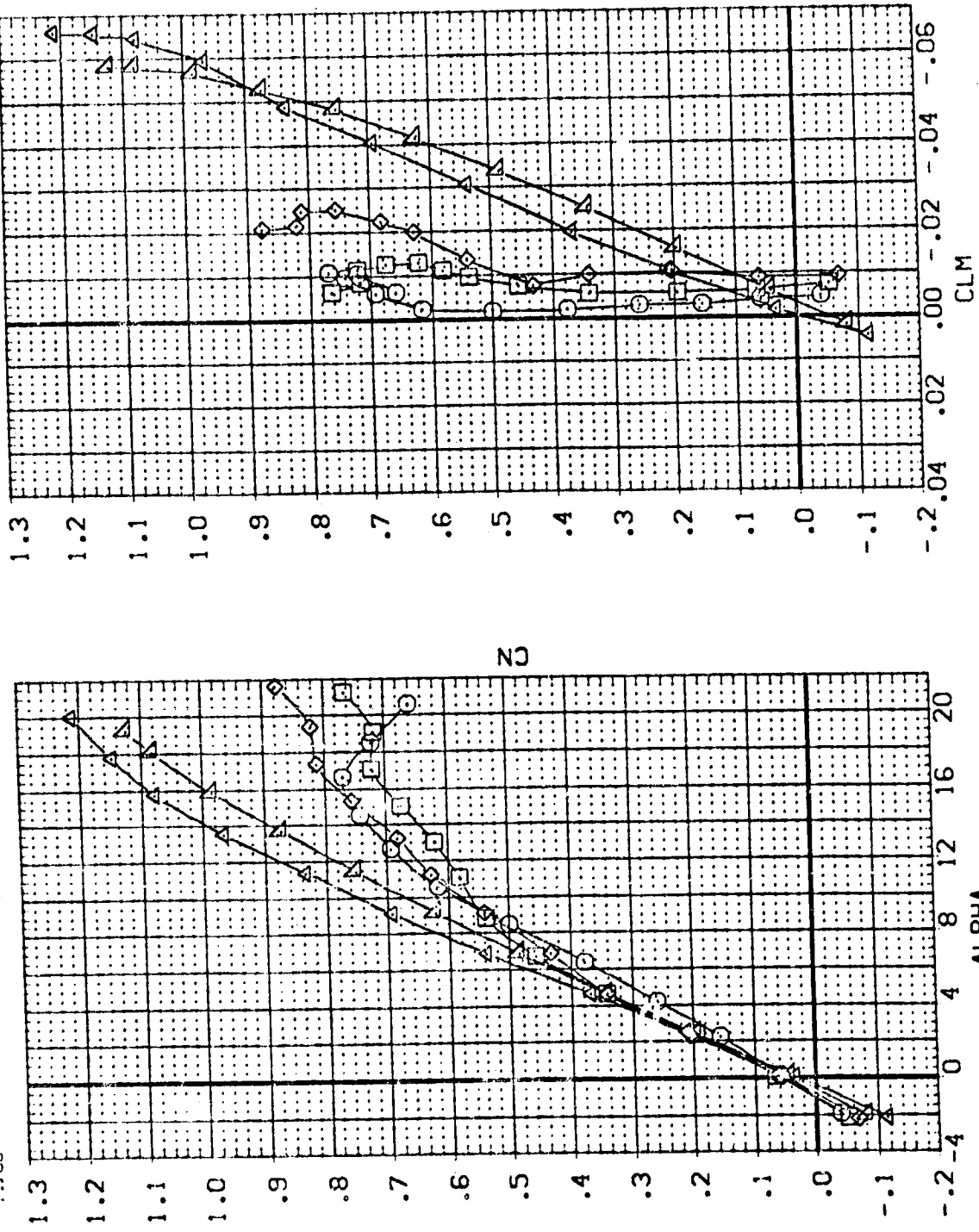
PARAMETRIC VALUES
BETA .000
LAMCAF 35.000
RCFLAP .000
WINGNO 3.000
ELEVTR .000
RJDFLR .000



EFFECT OF MACH NUMBER (B W3 V FB)

LARC 8-FT TBT S44 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
()	.345	.000	VINCO 3.000	SREF 173.1312
[]	.758	.35.000	ELEVTR .000	LREF 25.5100
[]	.899	.000	RJOTLR .000	BRF 20.5096
[]	.980	.000		XMRF 16.8533
[]	1.200			VMRF .0000
				ZMRF .0000
				SCALE .0188



EFFECT OF MACH NUMBER (B W3 V FB)

LARC 8-FT TPT 644 L0-10C ORBITER(SHIPS) (BW3VFB) (RP5016)

SYMBOL
 ○ □ ◇ △

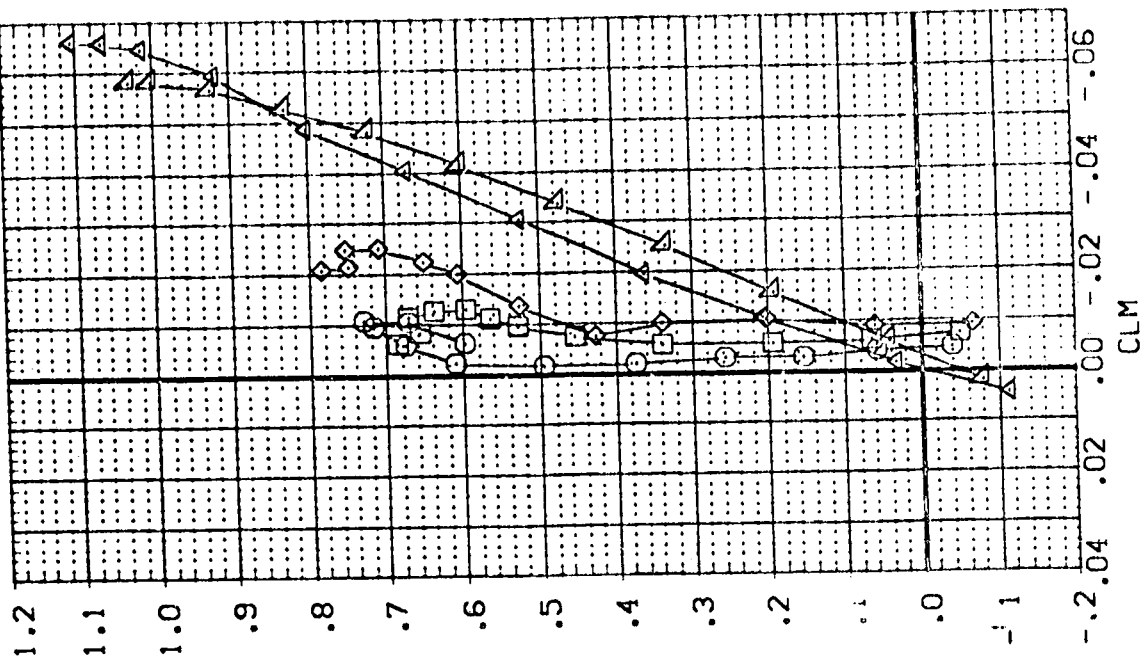
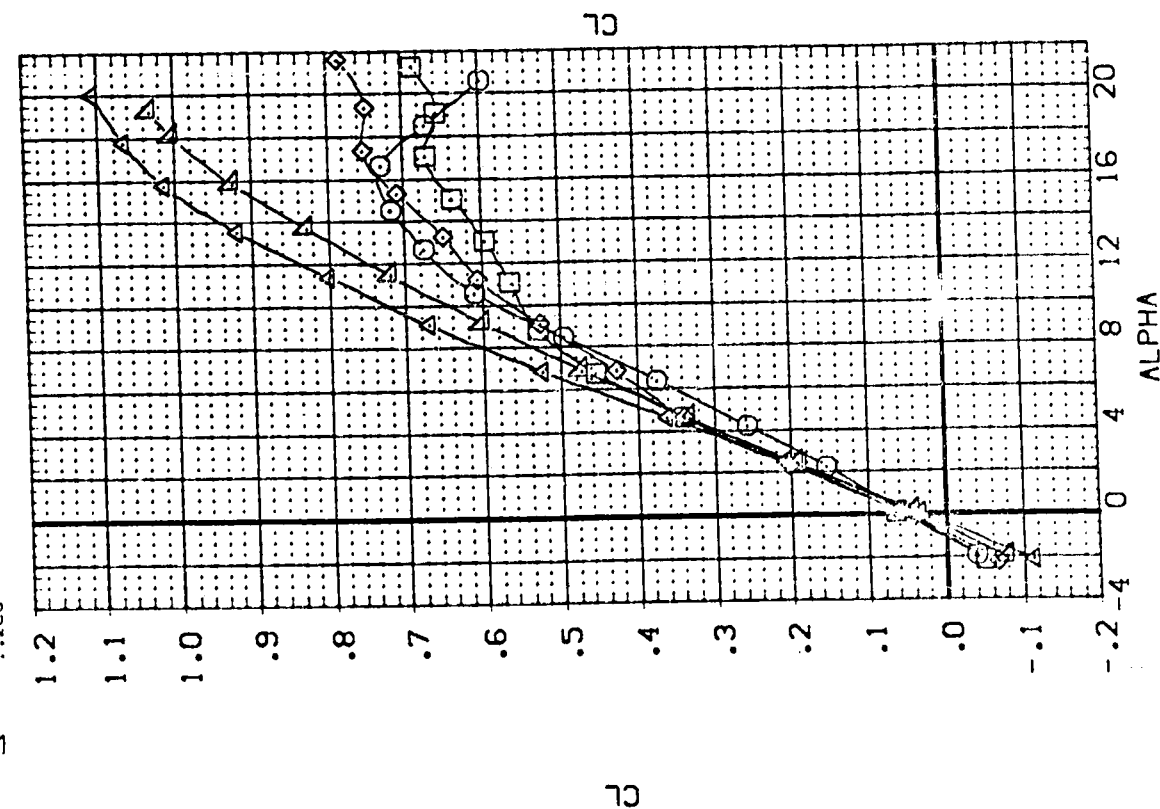
MACH
 .349
 .758
 .899
 .98C
 1.20C

BETA
 LAMDAF
 BDFLAP

PARAMETRIC VALUES
 .000
 35.000
 .000
 .000
 .000

WINGC
 ELEVTR
 RUDFLR

REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5100
 BREF 20.9096
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



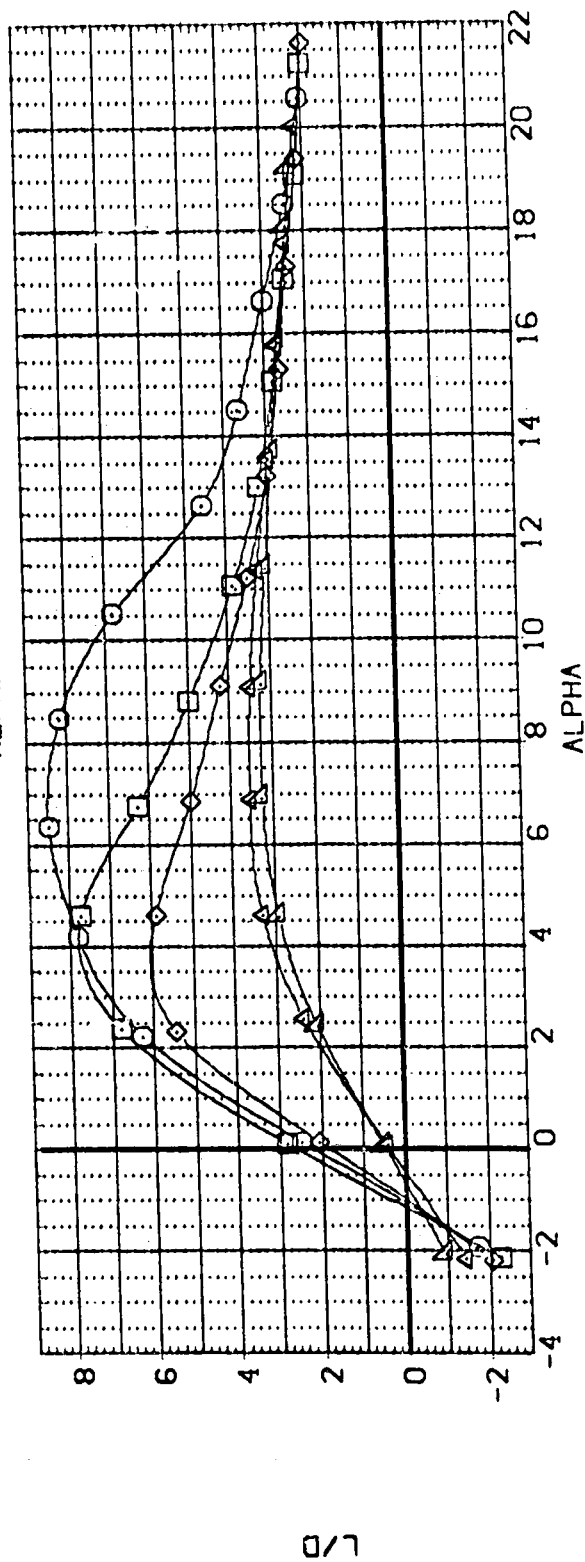
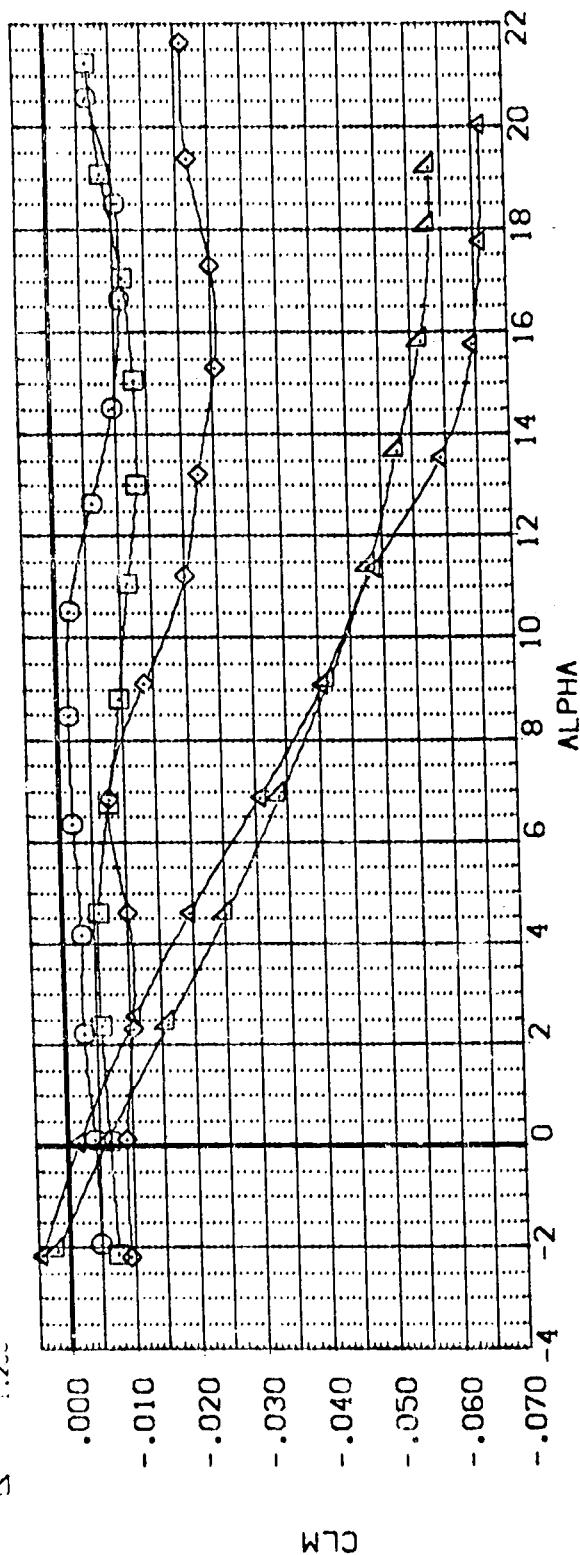
EFFECT OF MACH NUMBER (B W3 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

SYMBOL MACH
 ○ .349
 □ .799
 ◇ .899
 △ .990
 ▽ 1.200

PARAMETRIC VALUES
 BETA .000 WINGMC 3.000
 LAMDAF 36.000 ELEVTR .000
 BCFLAP .000 RUDFLR .000

REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5000
 BREF 20.8655
 XMRP 16.8633
 VMRP .0000
 ZMRP .0000
 SCALE .0169



EFFECT OF MACH NUMBER (B W3 V FB)

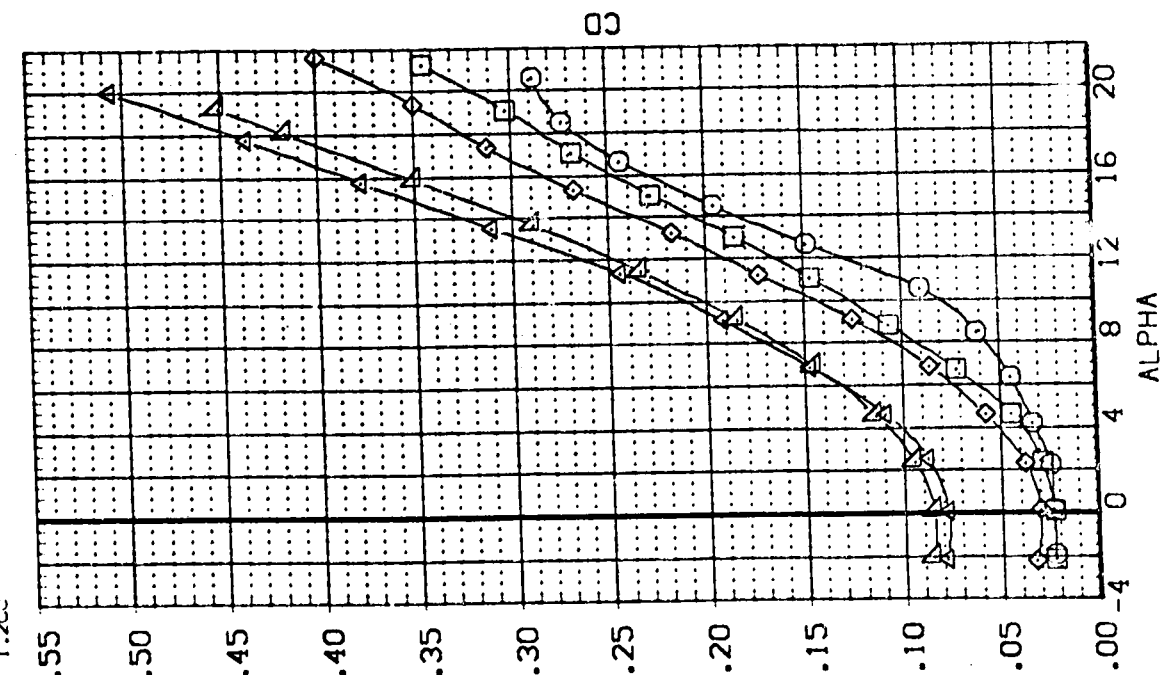
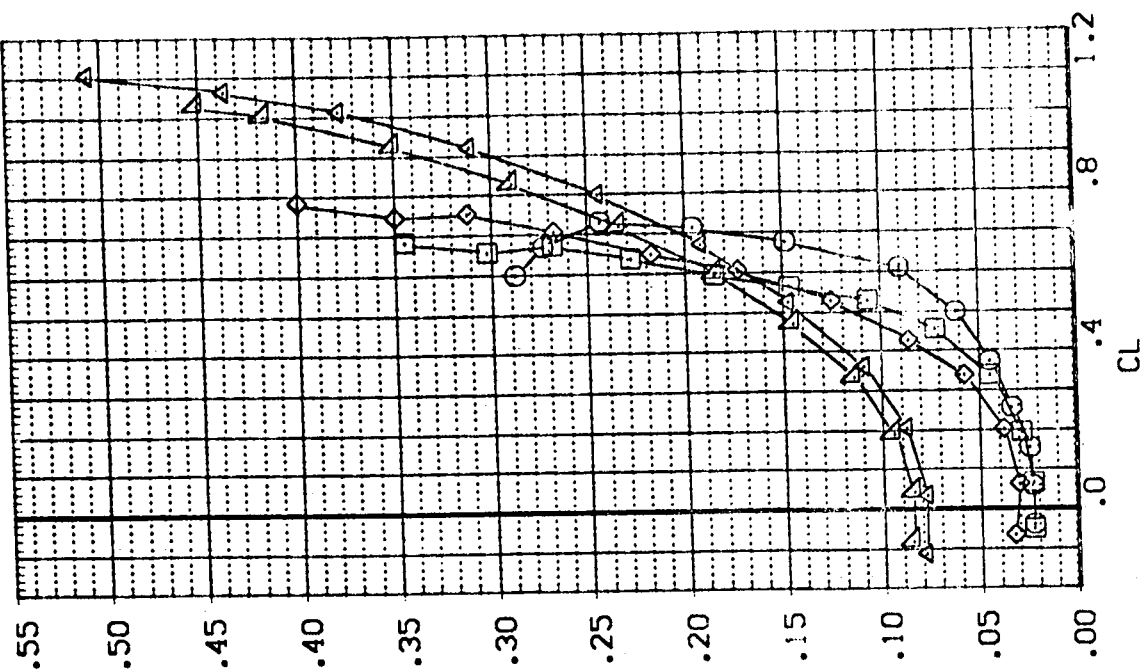
LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5016)

SYMBOL
 ○ □ ◇ △

MACH
 .345
 .798
 .899
 .980
 1.200

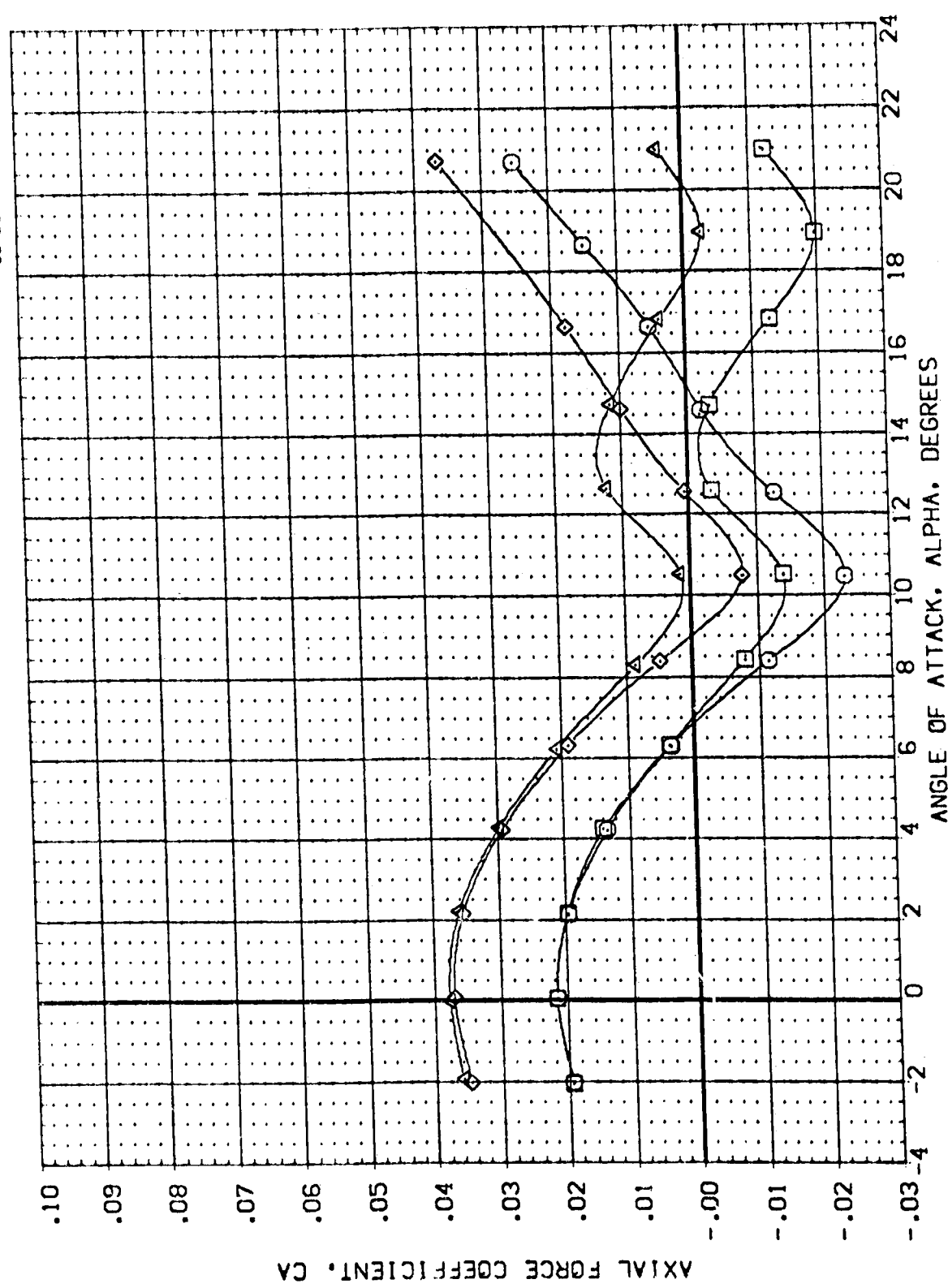
PARAMETRIC VALUES
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 LAMDAF 35.000
 BOFLAP .000
 WINGNO 3.000
 ELEVTR .000
 RJDFLR .000

REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5100
 BREF 20.9096
 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER (B W3 V FB)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RJDFLR	BDCLAP	REFERENCE INFORMATION
RP5007	LARC 8-FT TPT 644 LC-100 CR8/TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720
RP5012	LARC 8-FT TPT 644 LC-100 CR8/TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5100
RP5014	LARC 8-FT TPT 644 LC-100 CR8/TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	BREF 20.3367
RP5015	LARC 8-FT TPT 644 LC-100 CR8/TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	XMRP 16.8633
						VMRP .0000
						ZMRP .0000
						SCALE .0189



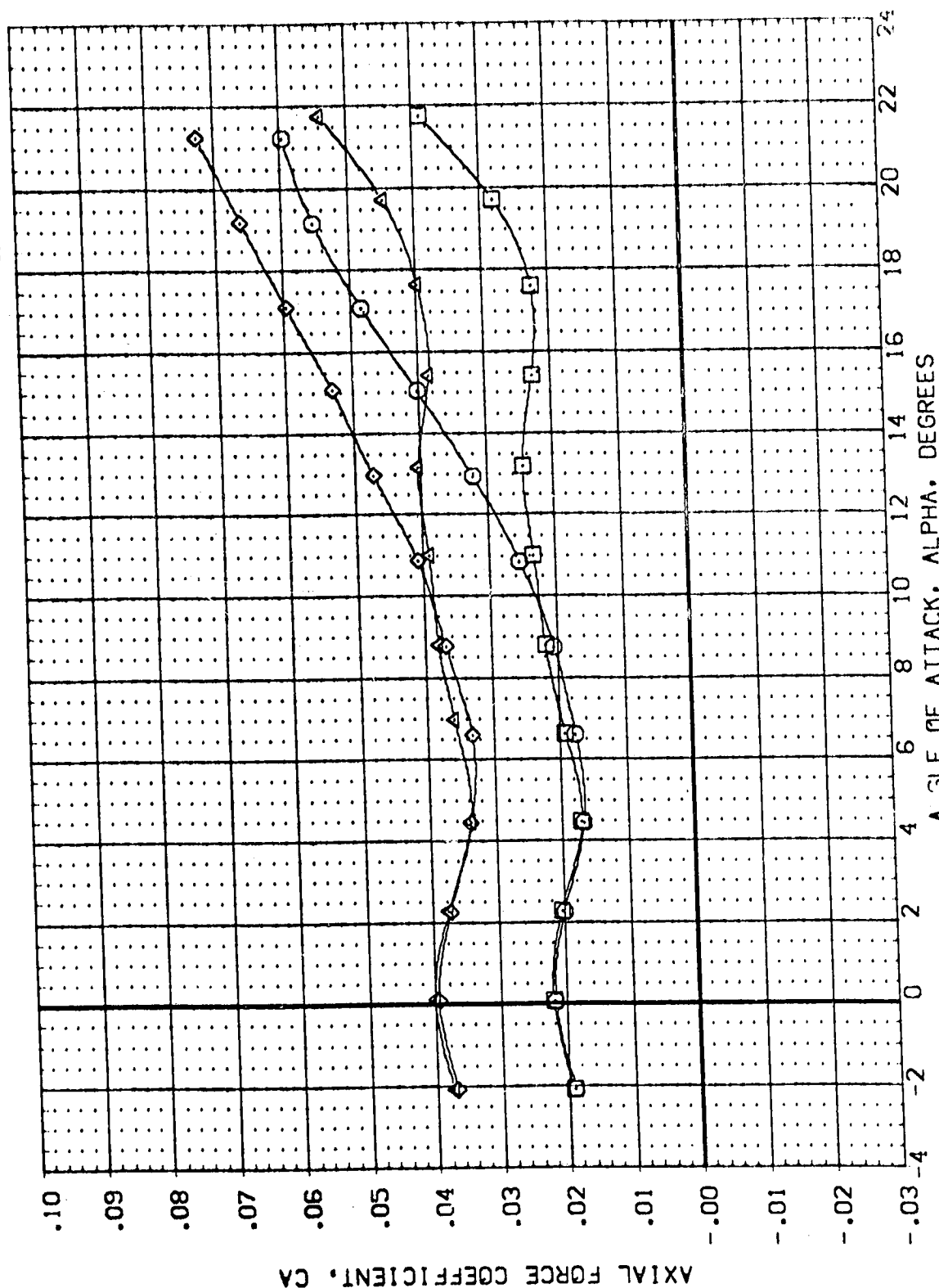
EFFECT OF RUDDER FLARE (B W2 V FB)

(A)MACH = .35



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

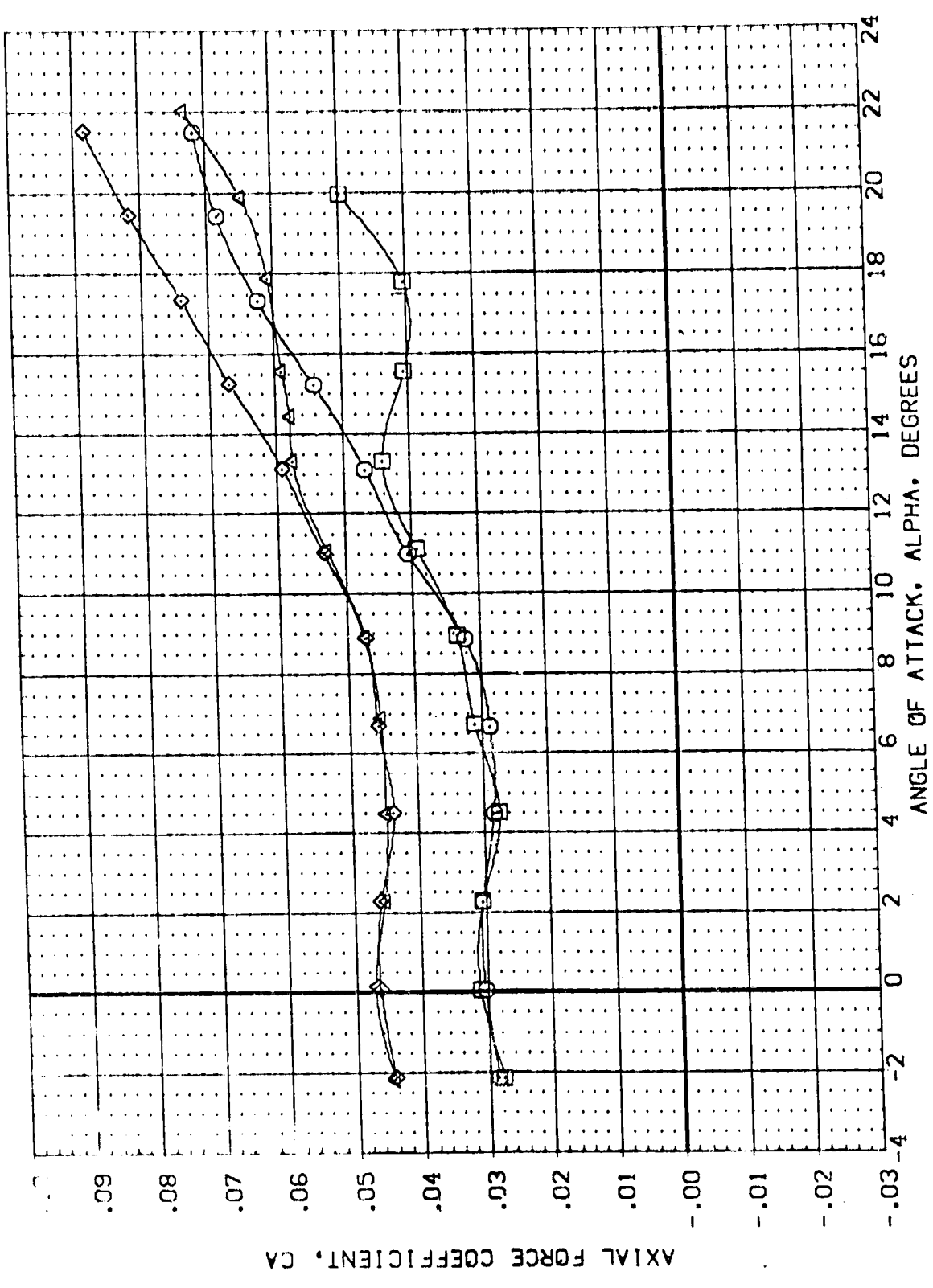
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF	BOFLAP	RUDFLR	WINGNO	LAMDAF	WINGNO	RUDFLR	BOFLAP	REF	SCALE
RP50071	LARC 8-FT TPT 644 LO-100 CRB11TER(SHIPS) (BV2VFB)	171.472C	.000	.000	2.000	46.800	2.000	.000	.000	171.472C	SC. IN.
RP50121	LARC 8-FT TPT 644 LO-100 CRB11TER(SHIPS) (BV2VFB)	25.51CC	.000	.000	2.000	75.000	2.000	.000	.000	25.51CC	INCHES
RP50141	LARC 8-FT TPT 644 LO-100 CRB11TER(SHIPS) (BV2VFB)	20.3597	.000	.000	2.000	46.800	2.000	.000	.000	20.3597	INCHES
RP50151	LARC 8-FT TPT 644 LO-100 CRB11TER(SHIPS) (BV2VFB)	16.8633	.000	.000	2.000	75.000	2.000	.000	.000	16.8633	INCHES
		.0000	.000	.000	2.000	46.800	2.000	.000	.000	.0000	INCHES
		.0000	.000	.000	2.000	75.000	2.000	.000	.000	.0000	INCHES
		.0188	.000	.000	2.000	46.800	2.000	.000	.000	.0188	SCALE



EFFECT OF RUDDER FLARE (B W2 V FB)

(B)MACH = .80

SET SYMBOL: 8
 CONFIGURATION DESCRIPTION: CR31TER(SHIP5)
 LAMDAE: 45.800
 WING: 2.000
 RUN: 9
 ED: 1.000
 REFERENCE INFORMATION: SCALE: 0.100
 X: 0.000
 Y: 0.000
 Z: 0.000
 W: 0.000
 V: 0.000
 U: 0.000
 T: 0.000
 S: 0.000
 R: 0.000
 Q: 0.000
 P: 0.000
 O: 0.000
 N: 0.000
 M: 0.000
 L: 0.000
 K: 0.000
 J: 0.000
 I: 0.000
 H: 0.000
 G: 0.000
 F: 0.000
 E: 0.000
 D: 0.000
 C: 0.000
 B: 0.000
 A: 0.000

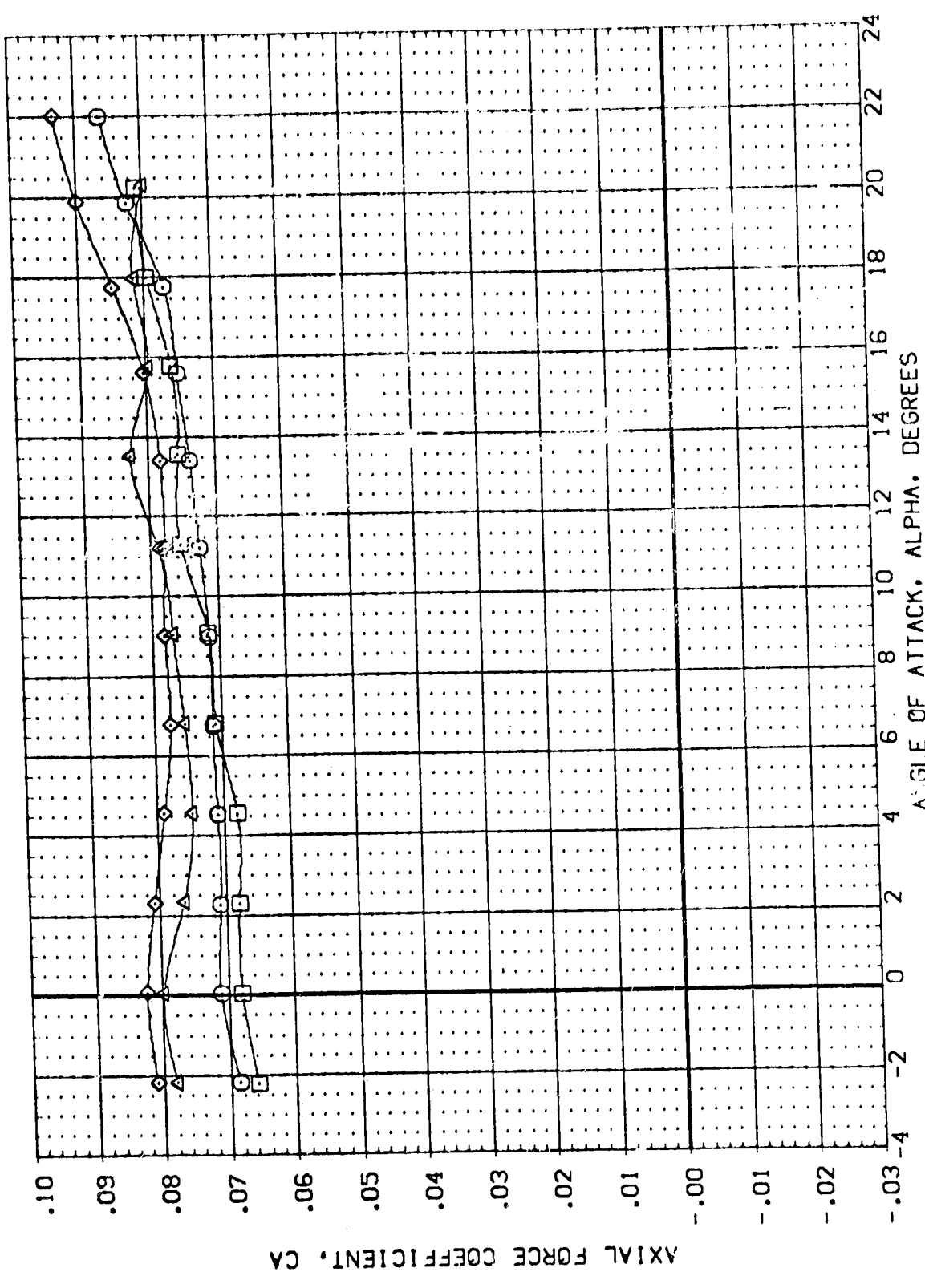


EFFECT OF RUDDER FLARE (B W2 V FB)

(COMACH = .90



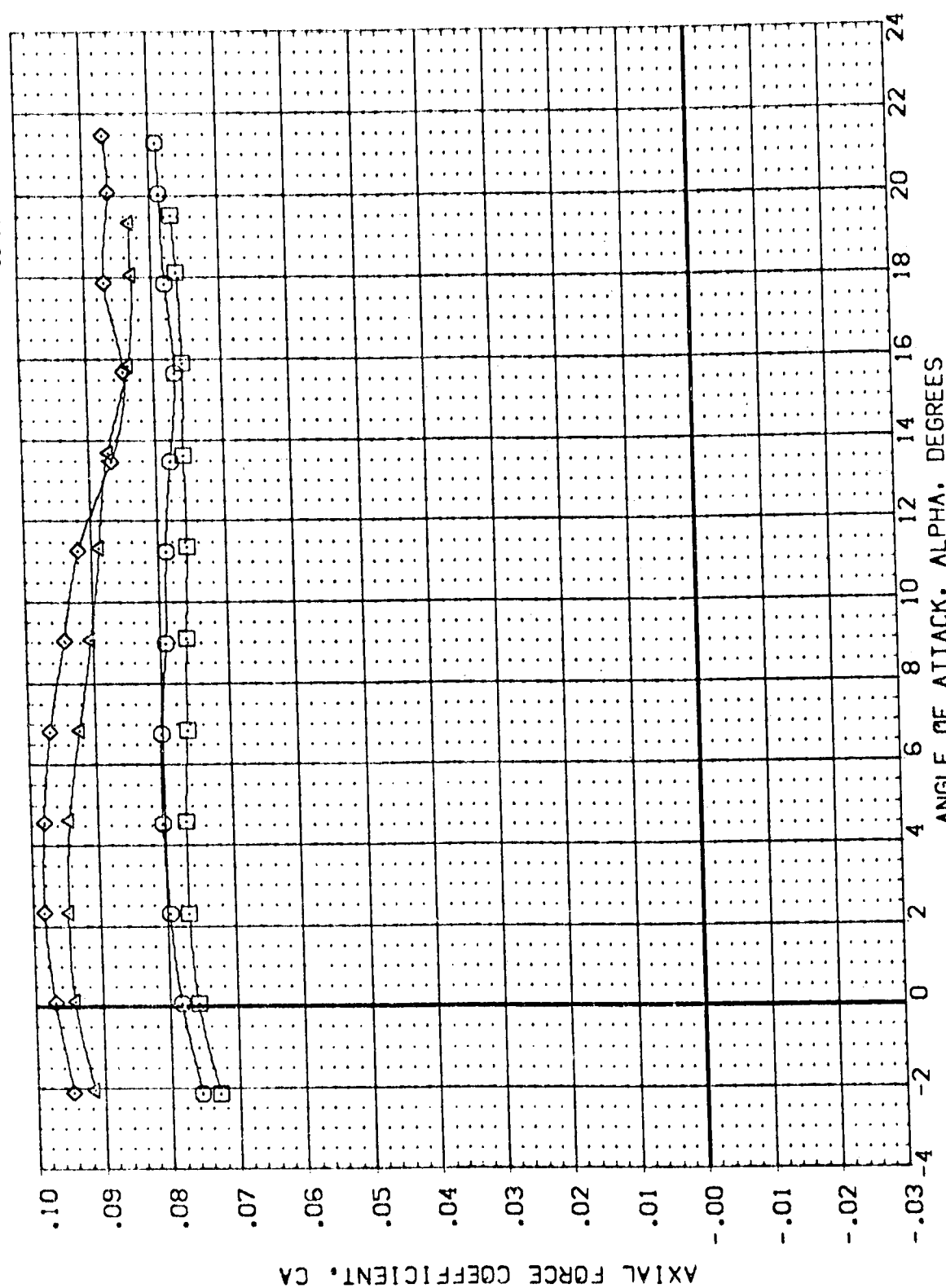
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGAC	RJDFLR	BOFLAP	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF :71.4725
(RPS012)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF :25.5100
(RPS014)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF :20.3997
(RPS015)	LARC 8-FT TPT 644 LO-100 CRB1TER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	XMRP :16.8533
						ZMRP :.0000
						SCALE :.0188
						SCALE



EFFECT OF RUDDER FLARE (B W2 V FB)

(M)MACH = .98

DATA SOURCE	CONFIDABILITY	SERIAL NO.	LANDAF	VINGC	RJDLR	REF LAB	REFERENCE	DATE
00000000	00000000	00000000	46 800	2.000	0.000	000000	00000000	00000000
00000000	00000000	00000000	(BV2VF8)			000000	00000000	00000000
00000000	00000000	00000000	45 000	2.000	0.000	000000	00000000	00000000
00000000	00000000	00000000	(BV2VF8)			000000	00000000	00000000
00000000	00000000	00000000	46 800	2.000	0.000	000000	00000000	00000000
00000000	00000000	00000000	(BV2VF8)			000000	00000000	00000000
00000000	00000000	00000000	45 000	2.000	0.000	000000	00000000	00000000
00000000	00000000	00000000	(BV2VF8)			000000	00000000	00000000
00000000	00000000	00000000	75 000	2.000	0.000	000000	00000000	00000000
00000000	00000000	00000000				000000	00000000	00000000



EFFECT OF RUDDER FLARE (B W2 V FB)

CEDMACH = 1.20

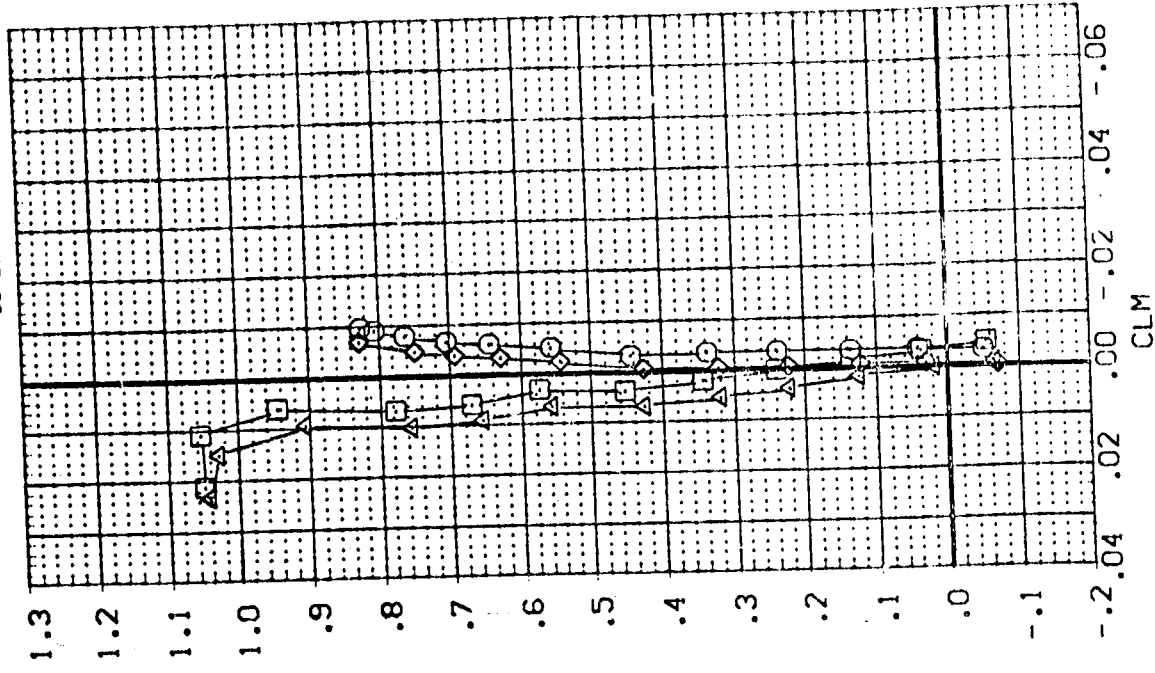
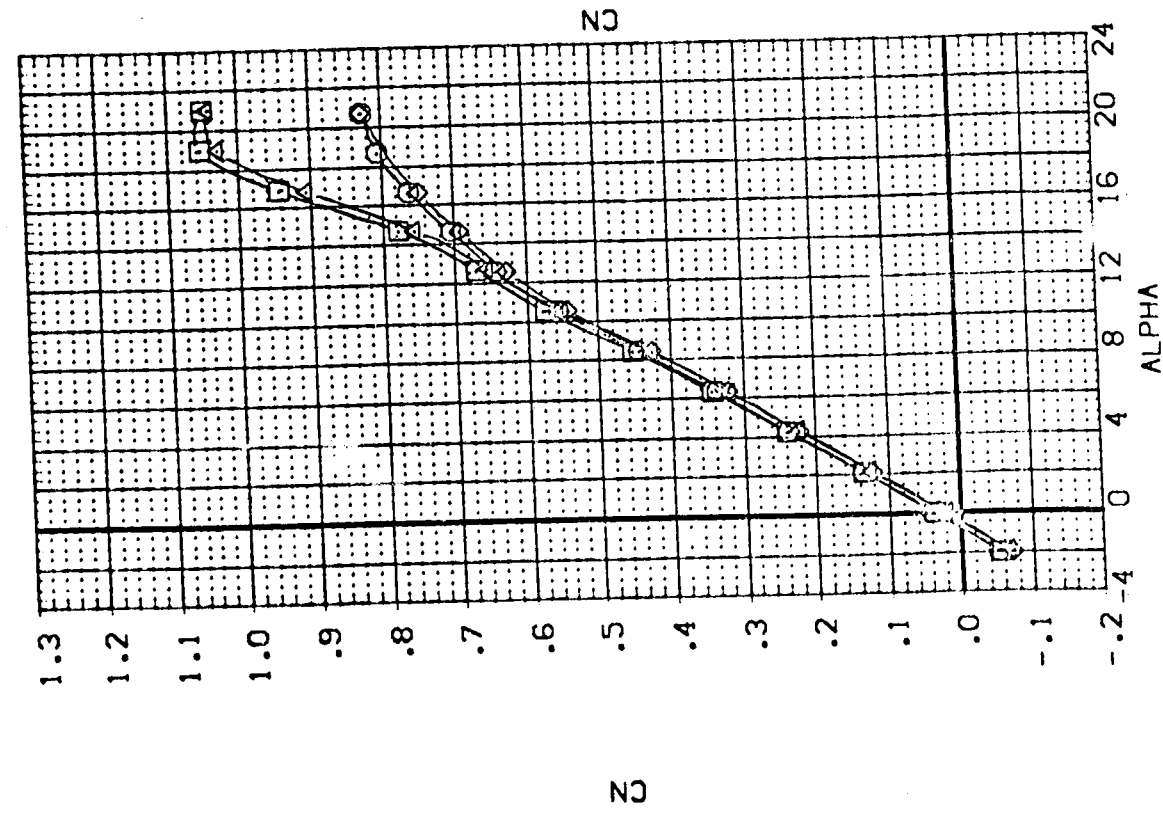


DATA SET SYMBO-
 : RPS007 :
 : RPS012 :
 : RPS014 :
 : RPS015 :

CONFIGURATION DESCRIPTION
 : ARC 8-FT TPT 644 LO-100 CRBITER(SHIP) (BV2VFB)
 : ARC 8-FT TPT 644 LO-100 CRBITER(SHIP) (BV2VFB)
 : ARC 8-FT TPT 644 LO-100 CRBITER(SHIP) (BV2VFB)
 : ARC 8-FT TPT 644 LO-100 CRBITER(SHIP) (BV2VFB)

LAMDAF VINGNO RUDELFR BDFLAP
 46.800 2.000 .000 .000
 75.000 2.000 .000 .000
 45.800 2.000 .000 .000
 75.000 2.000 .000 .000

REFERENCE INFORMATION
 SREF 171.472C SC-IN:5
 LREF 25.5100 SC-IN:5
 BREF 22.3597 SC-IN:5
 XMRP 16.8633 SC-IN:5
 YMRP .0000 SC-IN:5
 ZMRP .0000 SC-IN:5
 SCALE .0188

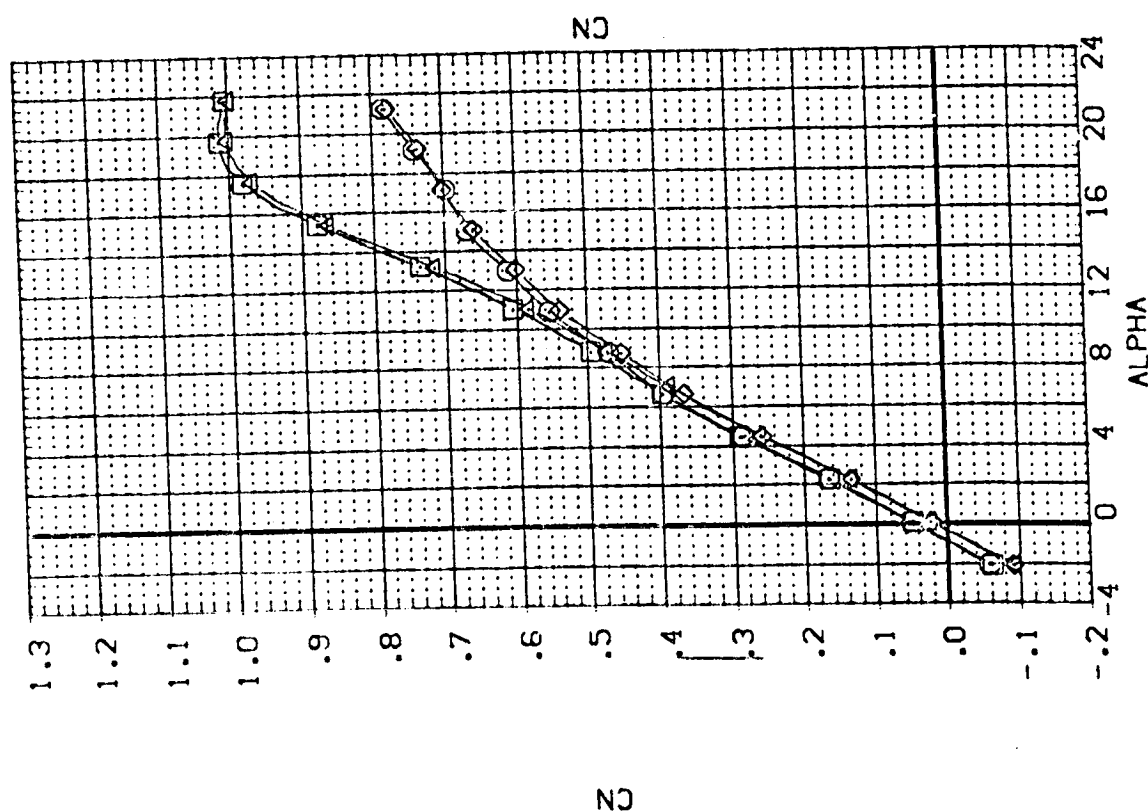
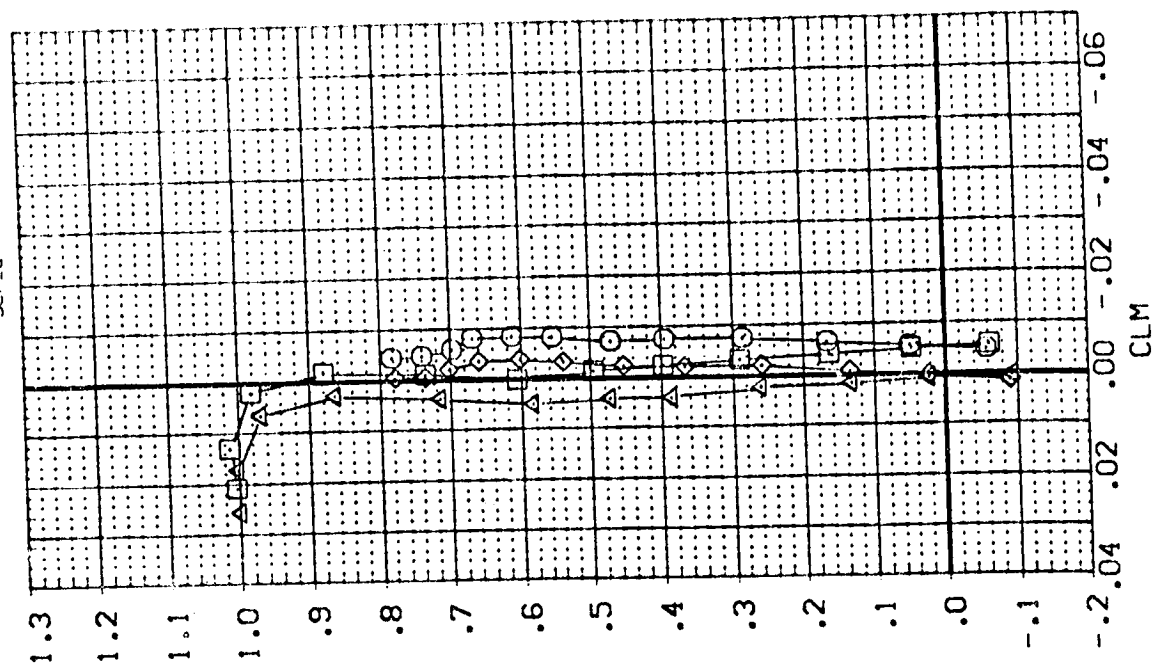


EFFECT OF RUDDER FLARE (B W2 V FB)

(A)MACH = .35

LANDAF	WINING
46.800	2.000
75.000	2.000
46.800	2.000
75.000	2.000

CONFIGURATION	DESCRIPTION		
APC 8-1	TP1 644	CRB TER SH IPS	(BV2VF8)
APC 8-2	TP1 644	CRB TER SH IPS	(BV2VF8)
APC 8-3	TP1 644	CRB TER SH IPS	(BV2VF8)
APC 8-4	TP1 644	CRB TER SH IPS	(BV2VF8)

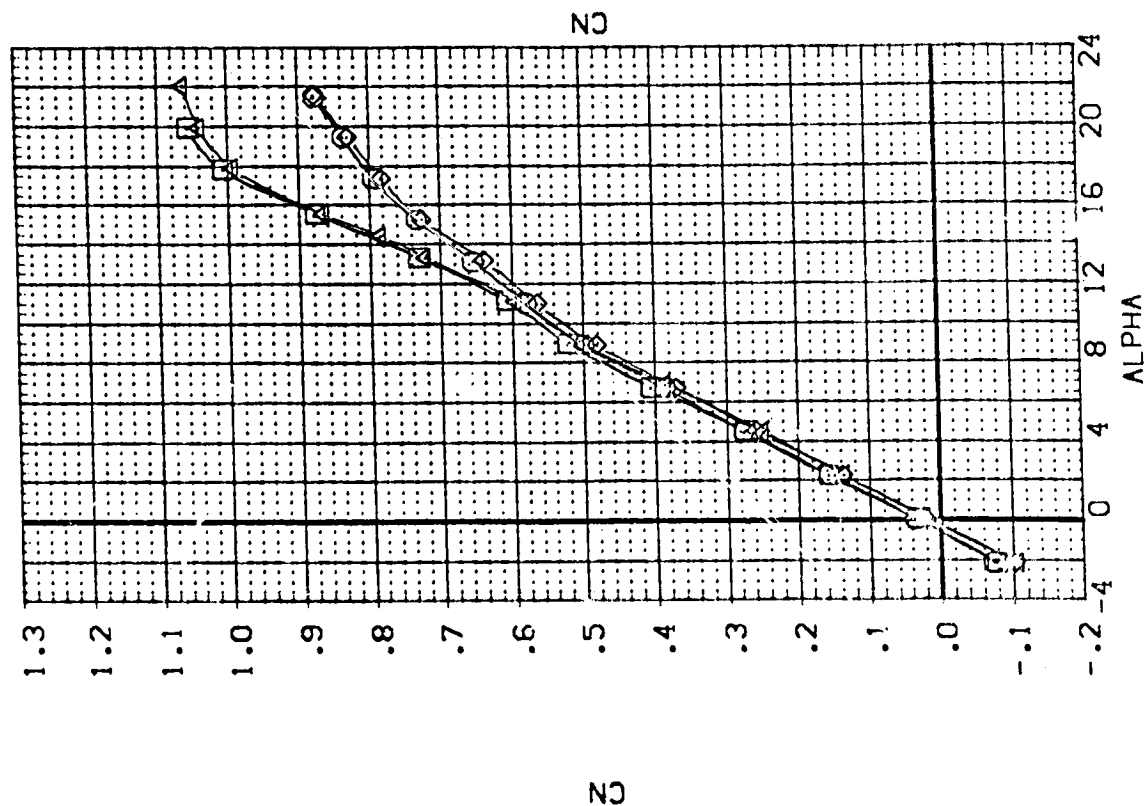
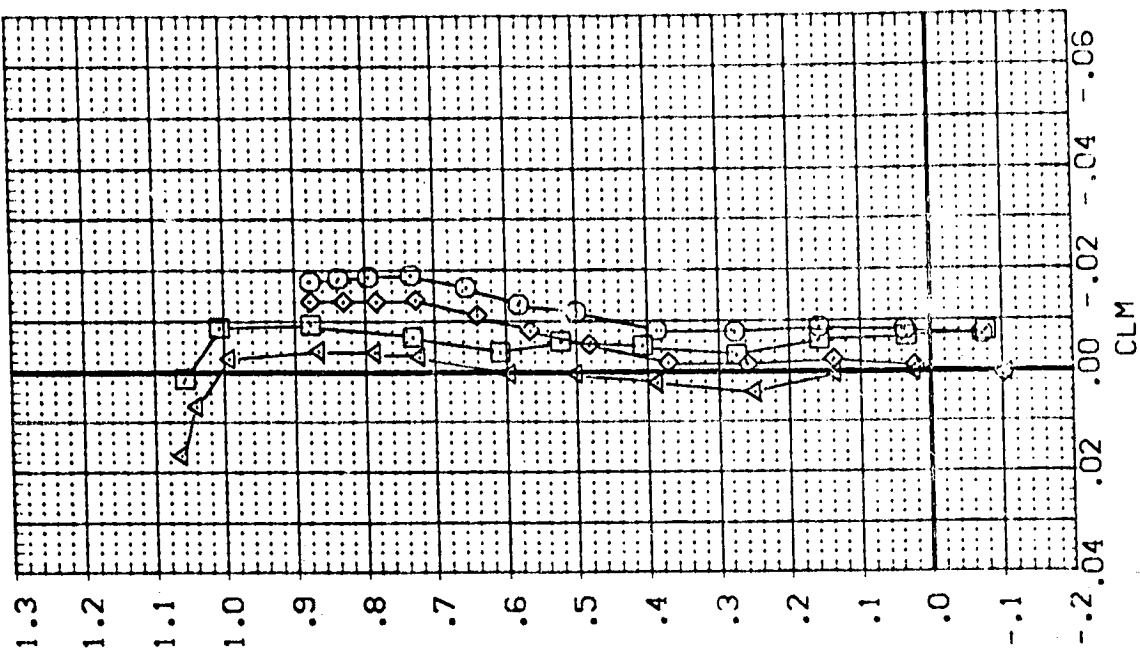
[illegible]

EFFECT OF RUDDER FLARE (B W2 V FB)

$$[B]_{MACH} = .80$$

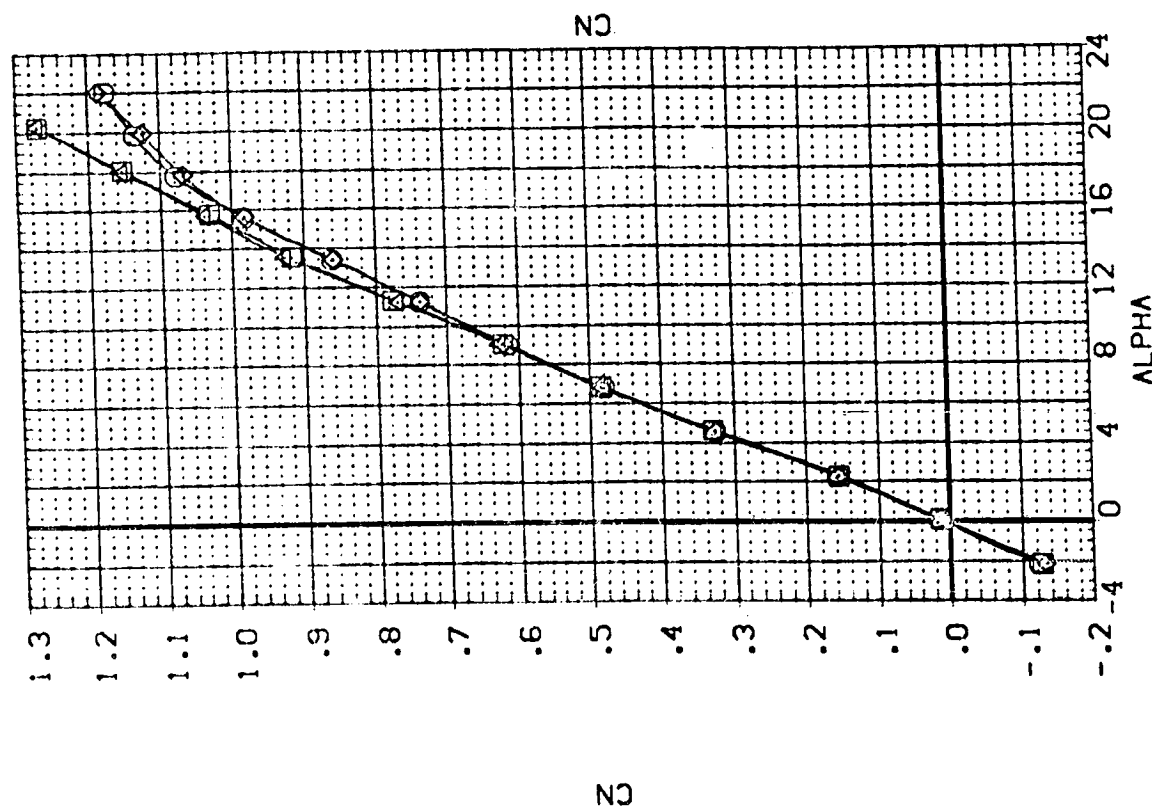
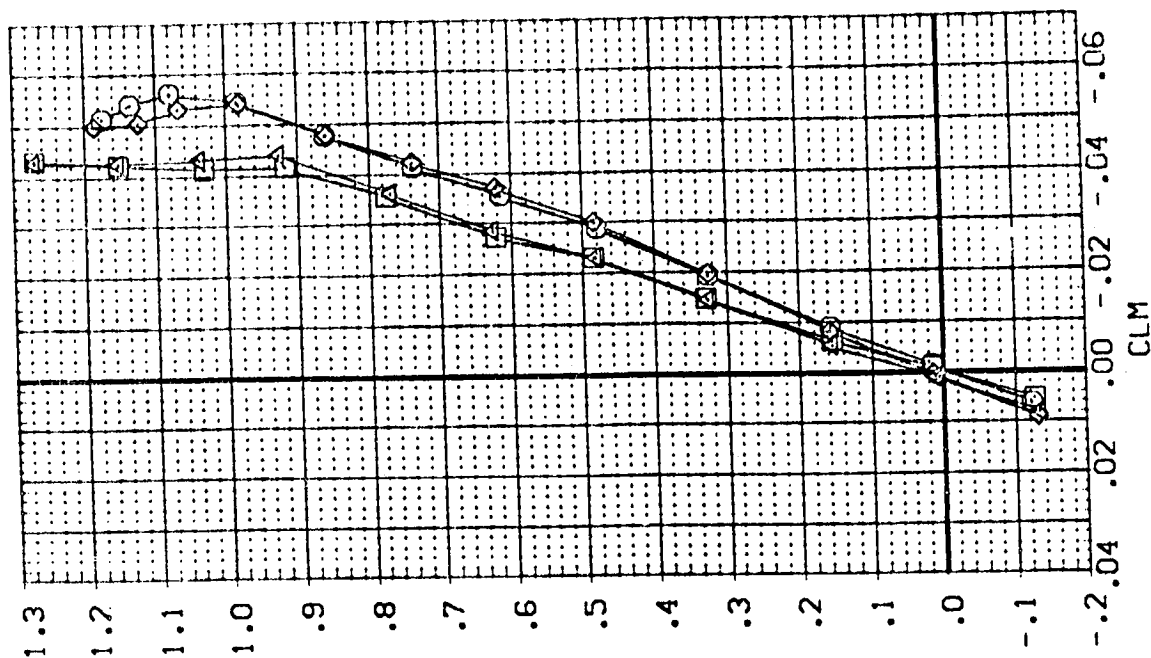


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	WINGNO	RJOF LR	BOFLAP	REFERENCE INFORMATION
(R50007)	(X)	ARC 8-FT TPT 644 LO-100 ORBITTER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(R50012)	(X)	ARC 8-FT TPT 644 LO-100 ORBITTER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5100 INCHES
(R50014)	(X)	ARC 8-FT TPT 644 LO-100 ORBITTER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	BREF 20.3597 INCHES
(R50015)	(X)	ARC 8-FT TPT 644 LO-100 ORBITTER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	XREF 16.8633 INCHES
							WREF .0000 INCHES
							ZREF .0000 INCHES
							SCALE .0188 INCHES



EFFECT OF RUDDER FLARE (B W2 V FB)

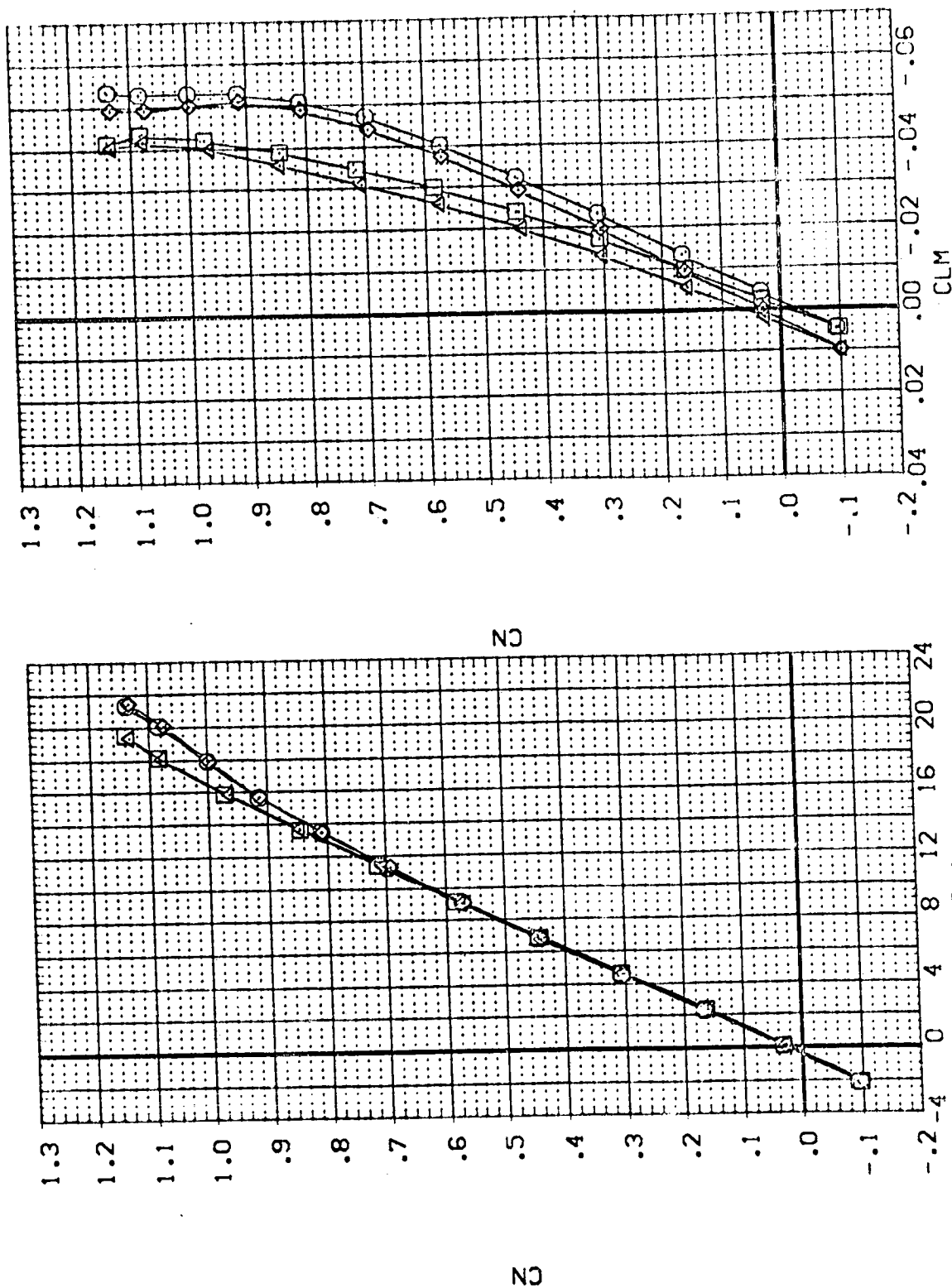
(C)MACH = .90

[illegible]

EFFECT OF RUDDER FLARE (B W2 V FB)

$$[C]_{MACH} = .98$$

DATA SET	SYNCH	CONF	DESCRIPTION	LANDAF	VINGNO	RJDFLR	BDFLAP	REFERENCE	INFORMATION
PROG07	(1)	8-5	TPT 644	46.800	2.000	.000	.000	SREF	171.4720
PROG12	(1)	8-5	TPT 644	75.000	2.000	.000	.000	UREF	25.5100
PROG13	(1)	8-5	TPT 644	46.800	2.000	.000	.000	BREF	20.3537
PROG14	(1)	8-5	TPT 644	75.000	2.000	10.000	.000	XMRP	1.6000
PROG15	(1)	8-5	TPT 644	75.000	2.000	10.000	.000	ZMRP	1.0000
PROG16	(1)	8-5	TPT 644	75.000	2.000	10.000	.000	ZMRP	1.0000
PROG17	(1)	8-5	TPT 644	75.000	2.000	10.000	.000	SCALE	1.0000



EFFECT OF RUDDER FLARE (B W2 V FB)

$$C[MACH] = 1.20$$

DATA SET SYMBOL: () X
 (R5007)
 (R5012)
 (R5014)
 (R5015)

CONFIGURATION DESCRIPTION
 -ARC 8-1-1 131 644 LC-100 CR81TER(SHIPS) (BV2VFB)
 -ARC 8-1-1 131 644 LC-100 CR81TER(SHIPS) (BV2VFB)
 -ARC 8-1-1 131 644 LC-100 CR81TER(SHIPS) (BV2VFB)
 -ARC 8-1-1 131 644 LC-100 CR81TER(SHIPS) (BV2VFB)

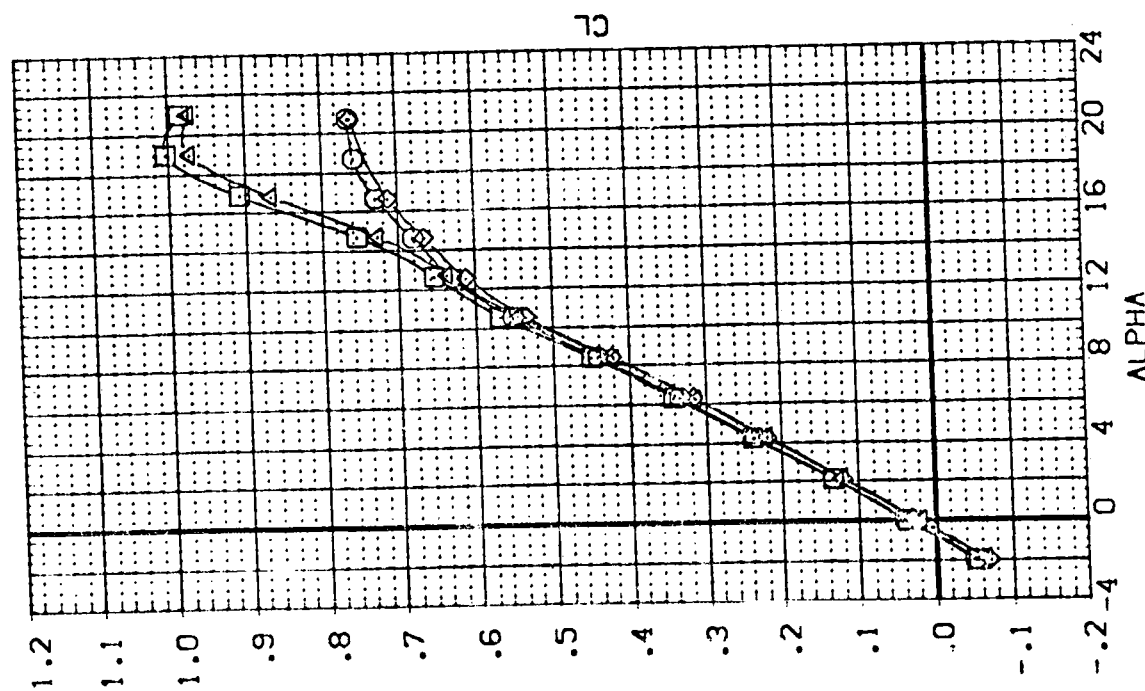
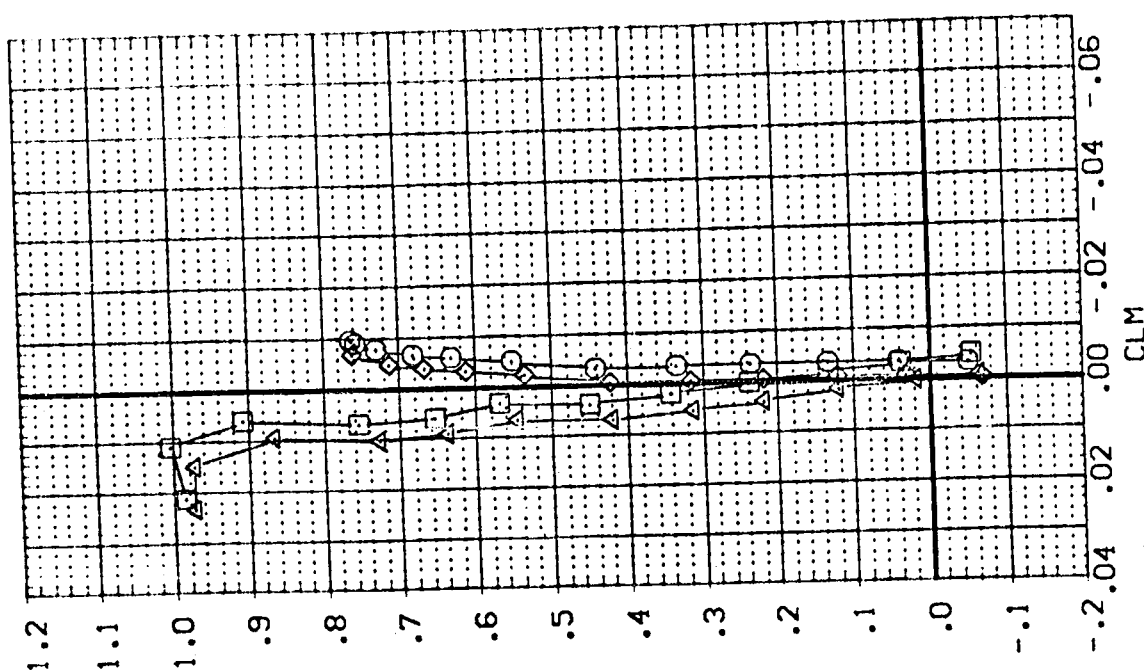
LAMDAF 46.800
 75.000
 46.800
 75.000

VINGNO 2.000
 2.000
 2.000
 2.000

RUDFLR .000
 .000
 10.000
 10.000

BOCLAP .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.0000
 BREF 20.0000
 YMRP 16.0000
 ZMRP 10.0000
 SCALE 10.0000



EFFECT OF RUDDER FLARE (B W2 V FB)

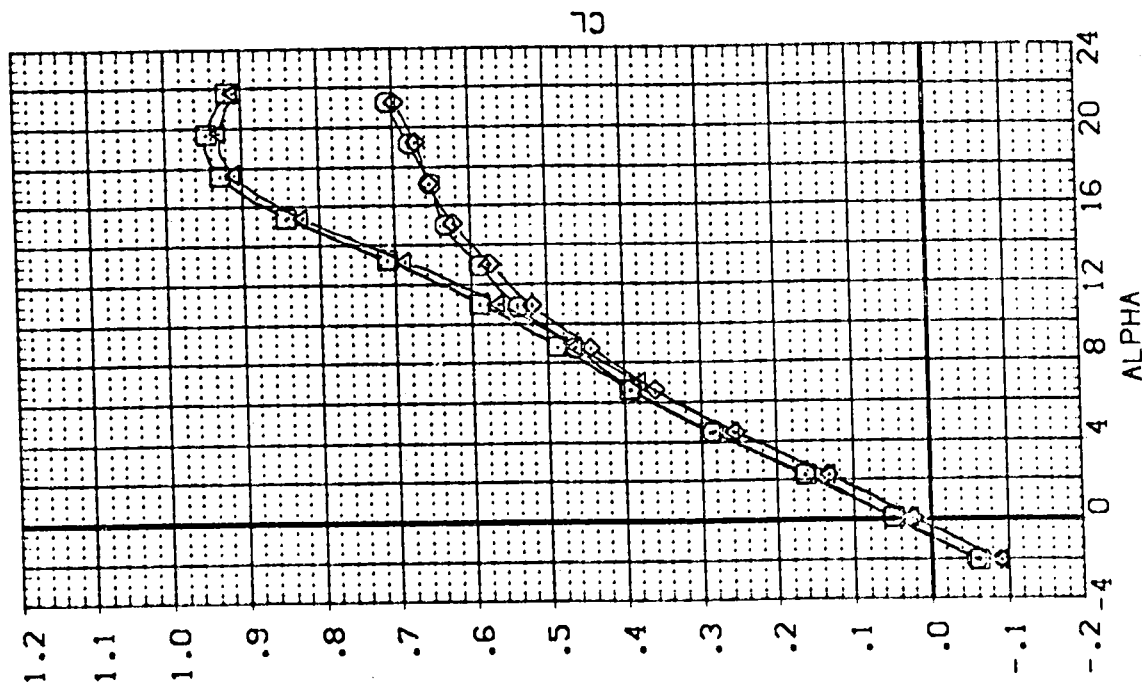
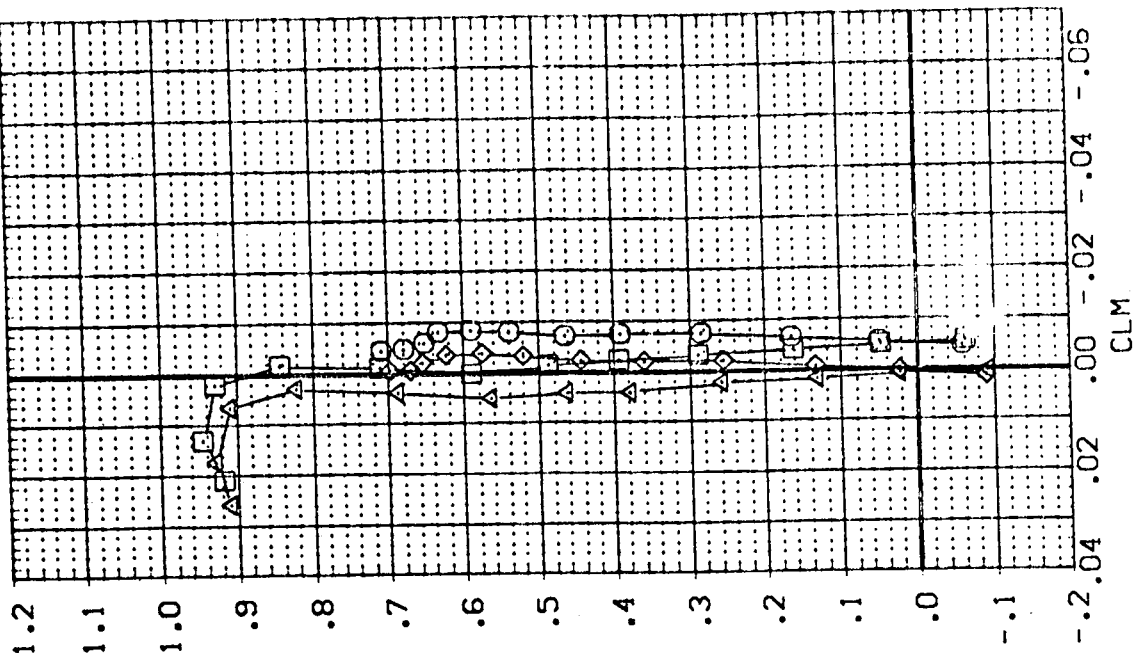
(A)MACH = .35

DATA SET SYMBOL:
 (R5307)
 (R5312)
 (R5314)
 (R5315)

CONFIGURATION DESCRIPTION
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BV2VFB)

LAMDAF 46.800 2.000 2.000 2.000 2.000 2.000
 VINGNO 2.000 2.000 2.000 2.000 2.000 2.000
 RUOFLR .000 .000 .000 .000 .000 .000
 BDFLAP .000 .000 .000 .000 .000 .000

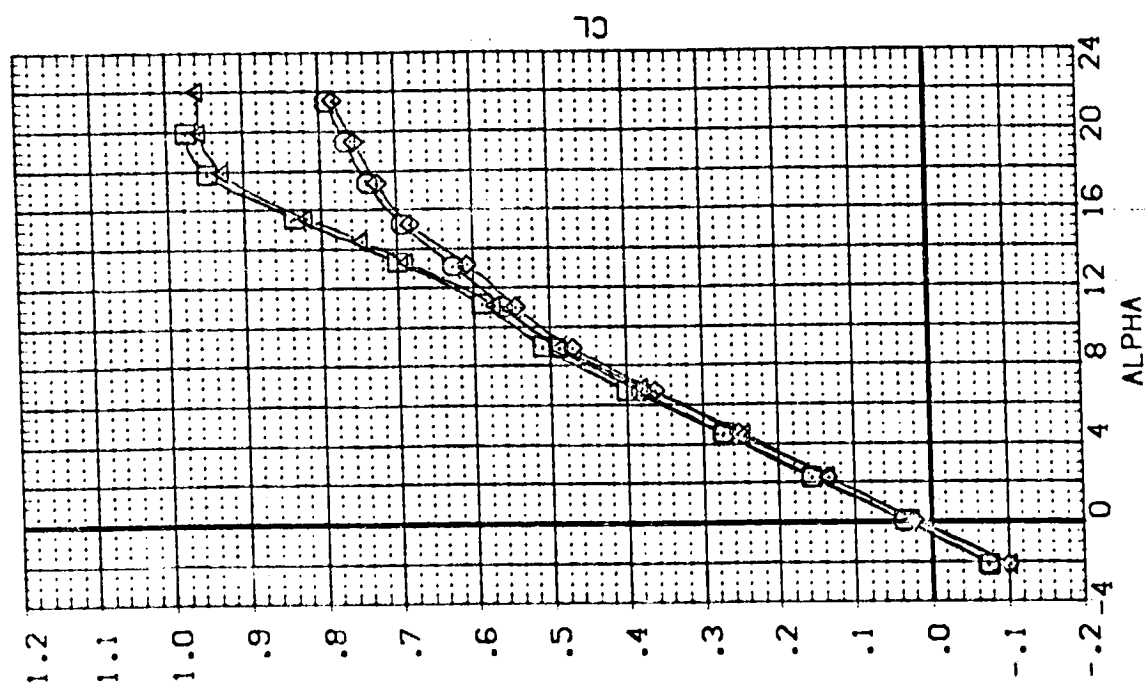
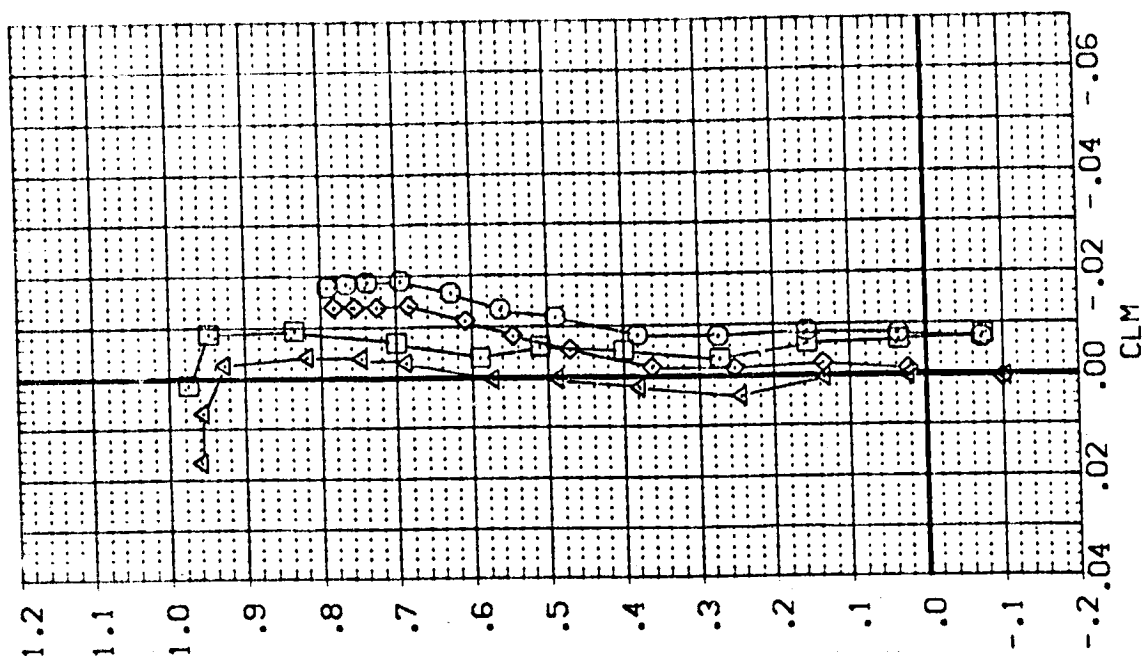
REFERENCE INFORMATION
 SREF 171.4720 SC.IN:
 LREF 25.5100 INCHES
 BREF 20.3697 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0188



EFFECT OF RUDDER FLARE (B W2 V FB)

(B)MACH = .80

DATA SET SWC-	CONFIGURATION	DESCRIPTION	LAMDAF	WINGW	RUOFLR	BOFLAP	REFERENCE INFORMATION
000007	8-ET	8-ET	46.800	2.000	.000	.000	SREF 171.4720
000008	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000009	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000010	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000011	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000012	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000013	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000014	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000015	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000016	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000017	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000018	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000019	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000020	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000021	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000022	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000023	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000024	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000025	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000026	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000027	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000028	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000029	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000030	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000031	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000032	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000033	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000034	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000035	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000036	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000037	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000038	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000039	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000040	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000041	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000042	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000043	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000044	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000045	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000046	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000047	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000048	8-ET	8-ET	46.800	2.000	.000	.000	UREF 25.5100
000049	8-ET	8-ET	46.800	2.000			

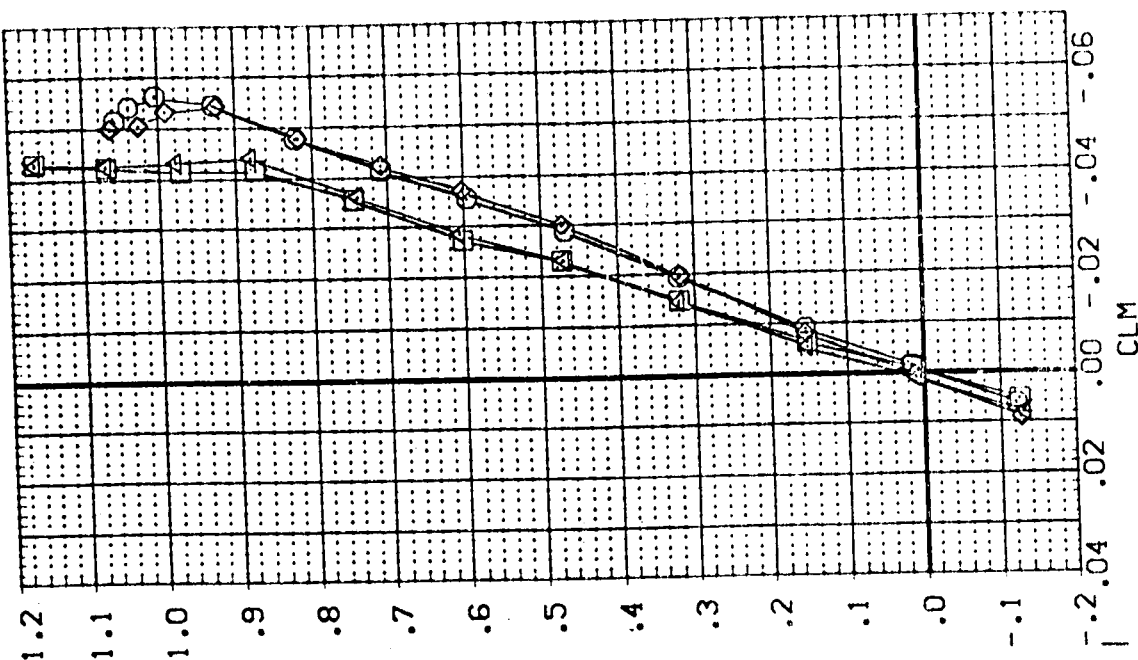
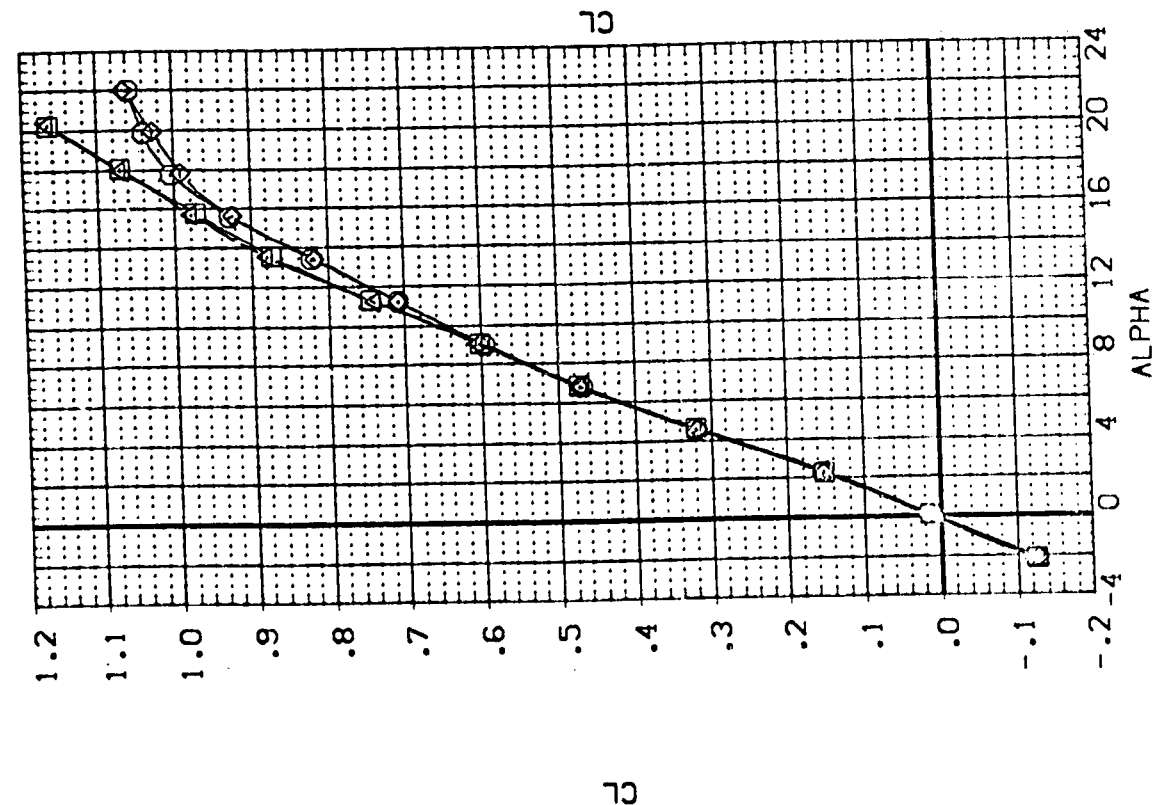


EFFECT OF RUDDER FLARE (B W2 V FB)

[[C]MACH = .00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 544 LC-100 CR81TER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720 SQ. IN.
(RP5012)	LARC 8-FT TPT 544 LC-100 CR81TER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5100 INCHES
(RP5014)	LARC 8-FT TPT 544 LC-100 CR81TER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF 20.3597 INCHES
(RP5015)	LARC 8-FT TPT 544 LC-100 CR81TER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	XMRP 16.8633 INCHES
						YMRP .0000 INCHES
						ZMRP .0000 INCHES
						SCALE .0188 SCALE

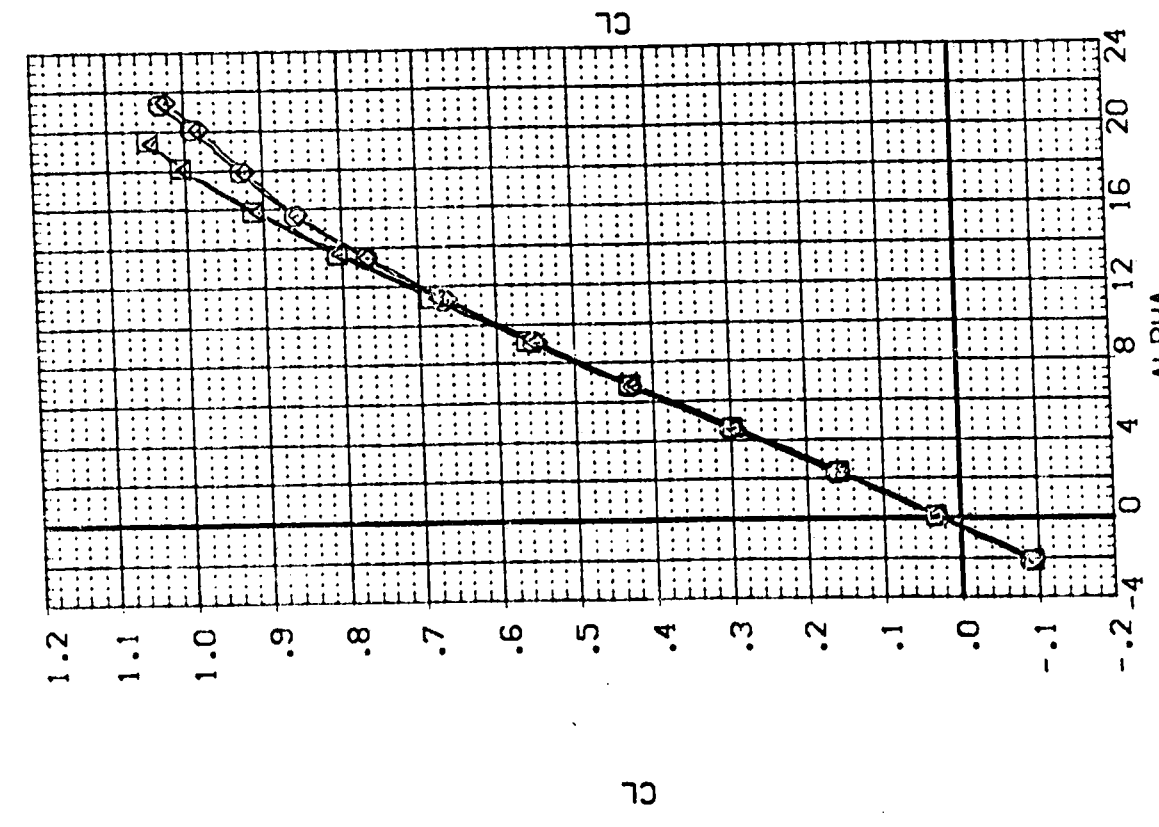
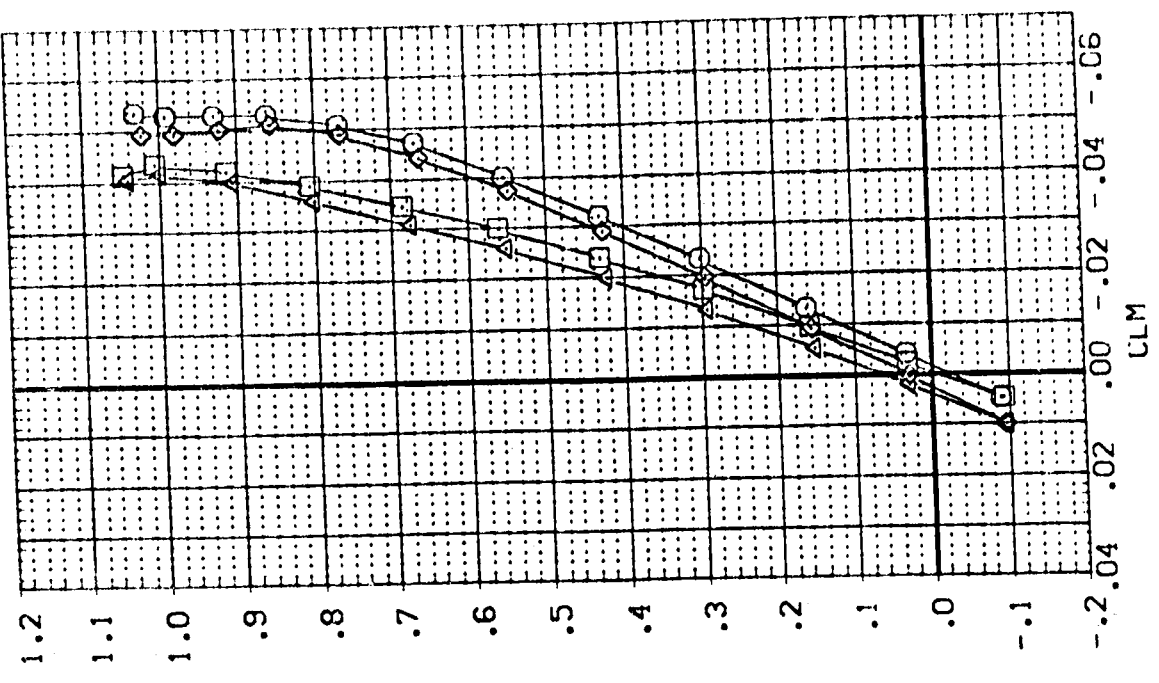


DATA SET SYMBOL
 (P23C07)
 (P23C12)
 (P23C14)
 (P23C15)

CONFIGURATION DESCRIPTION
 LARC 8-ET TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-ET TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-ET TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)
 LARC 8-ET TPT 644 LG-100 ORBITER(SHIPS) (BV2VFB)

REFERENCE INFORMATION
 SREF 171.4720
 LREF 25.5100
 BREF 20.5597
 XMRP 16.8633
 YMRP 0.0000
 ZMRP 0.0000
 SCALE 10.88

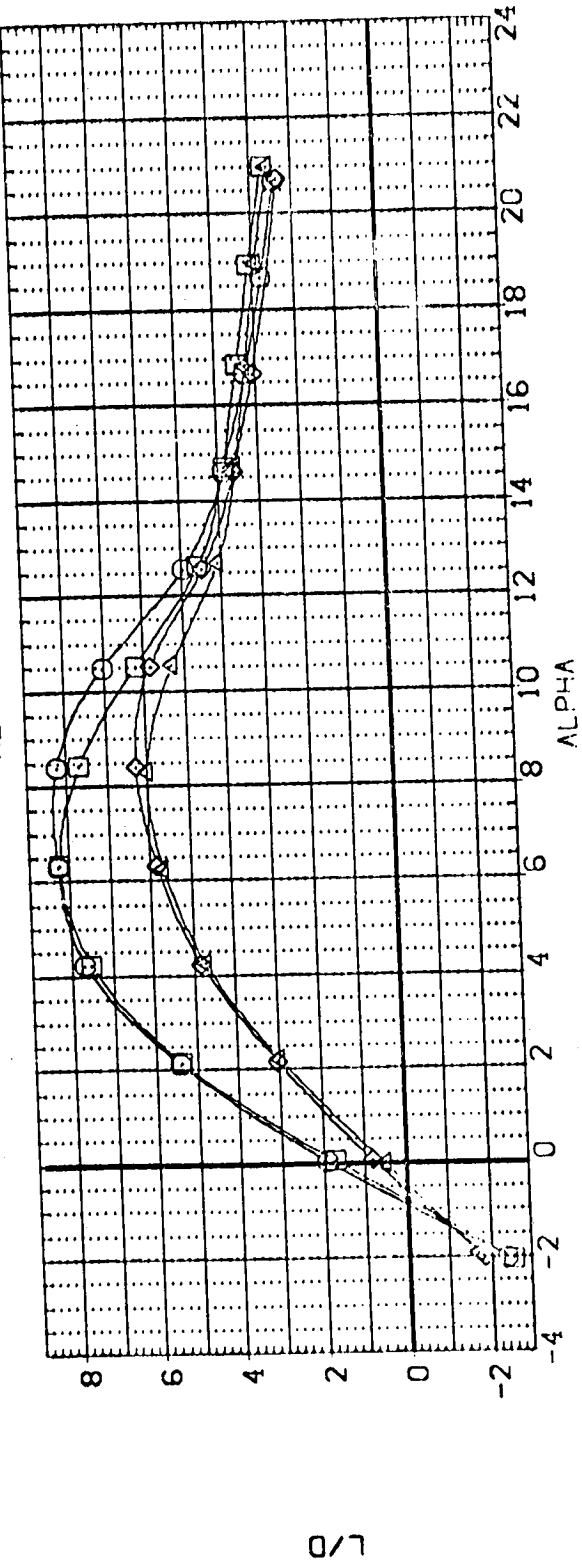
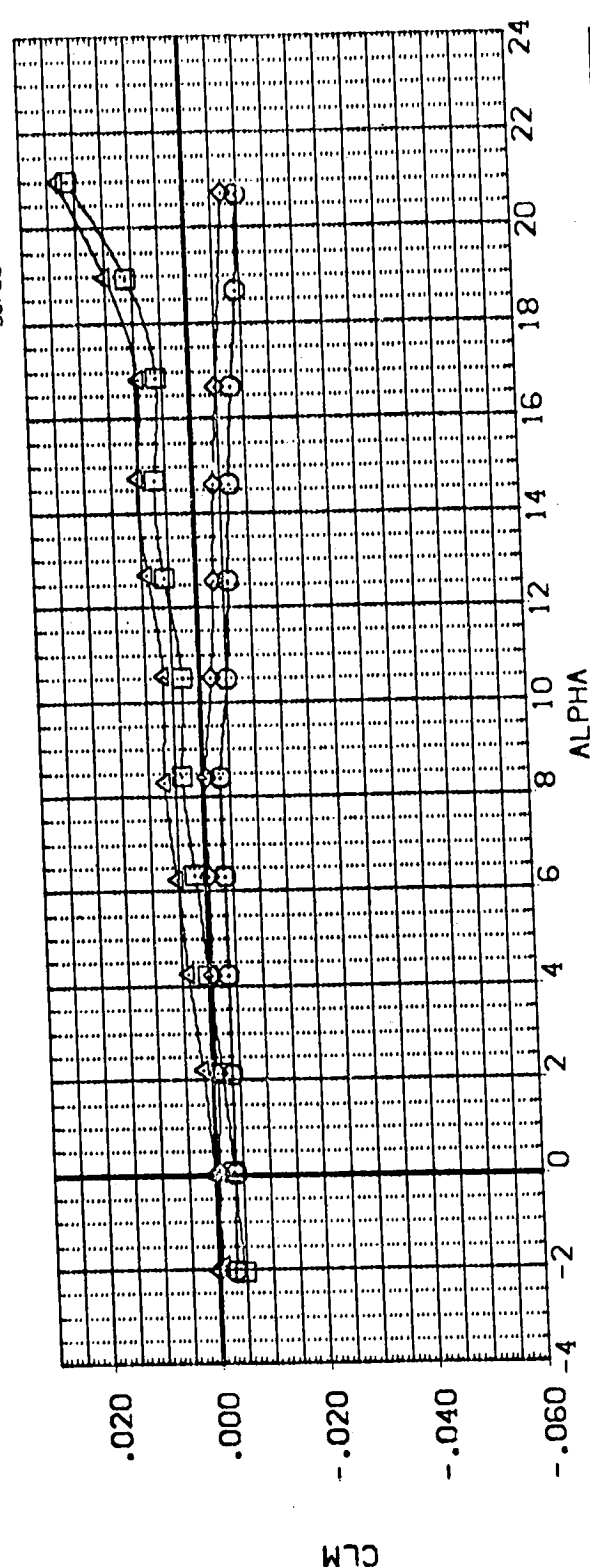
LANDAF 46.800
 VINGNO 2.000
 R2OLR 0.000
 BDFLAP 0.000



EFFECT OF RUDDER FLARE (B W2 V FB)

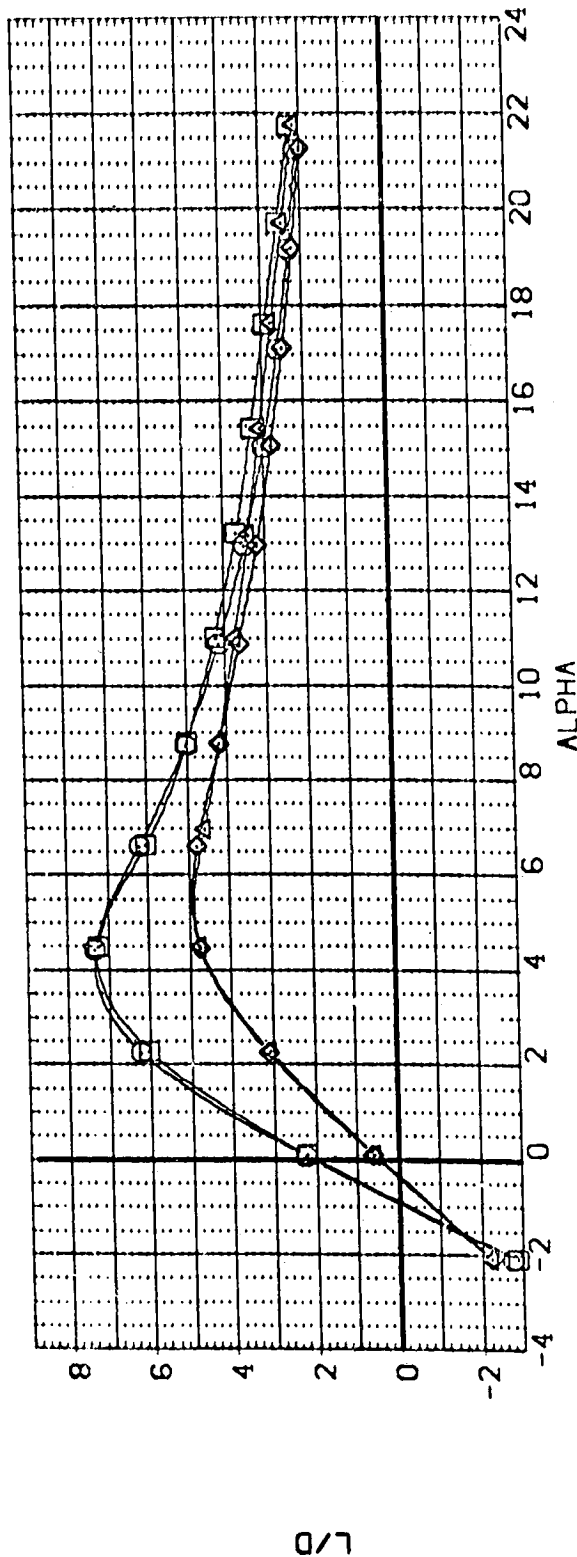
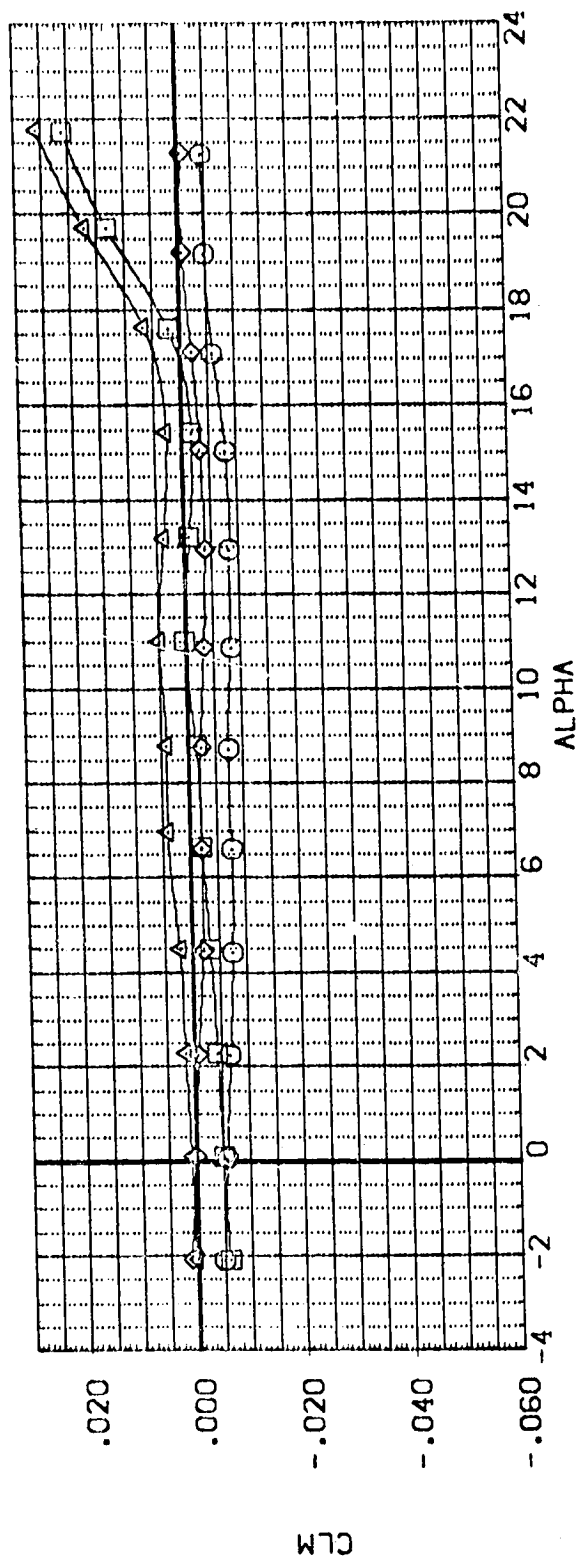
DATA SET SYMBOL: (C) (X)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LA'CAF	VINGNO	RUOFLR	BOFLAP	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BW2VFB)	45.800	2.000	.000	.000	SREF 171.4720
(RPS012)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BW2VFB)	75.000	2.000	.000	.000	REF 25.5100
(RPS014)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BW2VFB)	45.800	2.000	10.000	.000	REF 20.3557
(RPS015)	LARC 8-FT TPT 644 LG-100 CRB1TER(SHIPS) (BW2VFB)	75.000	2.000	10.000	.000	REF 16.8833
						VMOP .0000
						ZMOP .0000
						SCALE .0198



EFFECT OF RUDDER FLARE (B W2 V FB)

CADYAC- = .35

[illegible]

EFFECT OF RUDDER FLARE (B W2 V FB)

0.80 MACH =

PAGE 132

DATA SET SYMBOL: (P3007) (P3012) (P3014) (P3015)

CONFIGURATION DESCRIPTION:
 ARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 ARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 ARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)
 ARC 8-51 TPT 644 LC-100 CRB1TER(SHIPS) (BV2VFB)

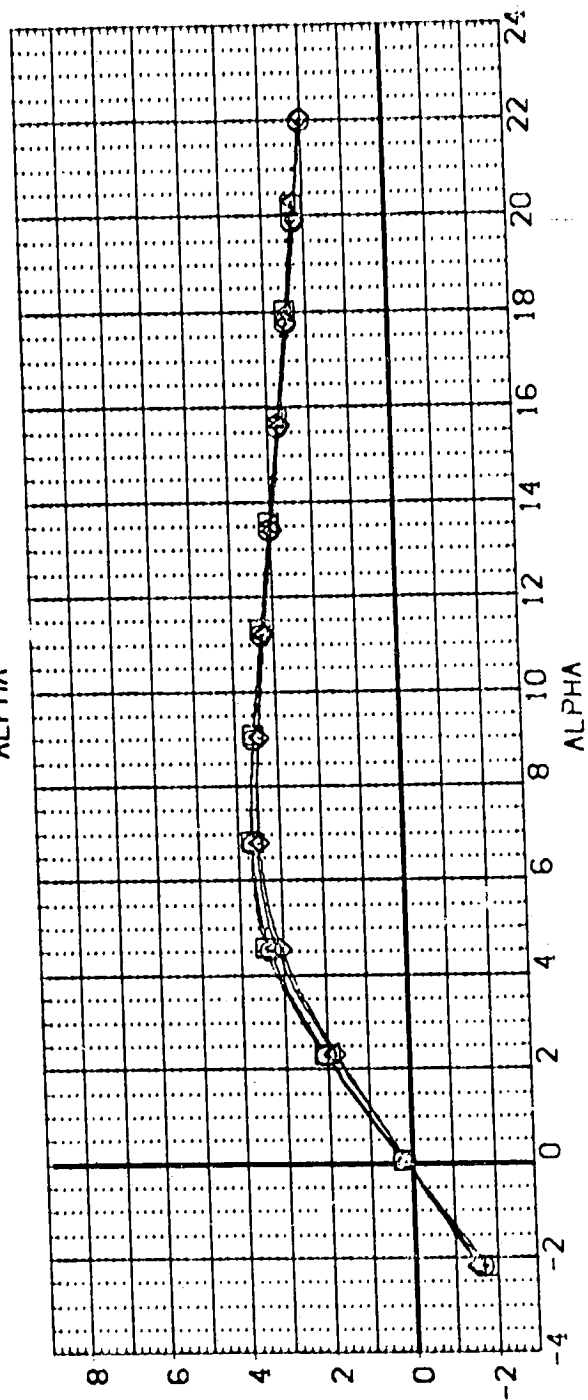
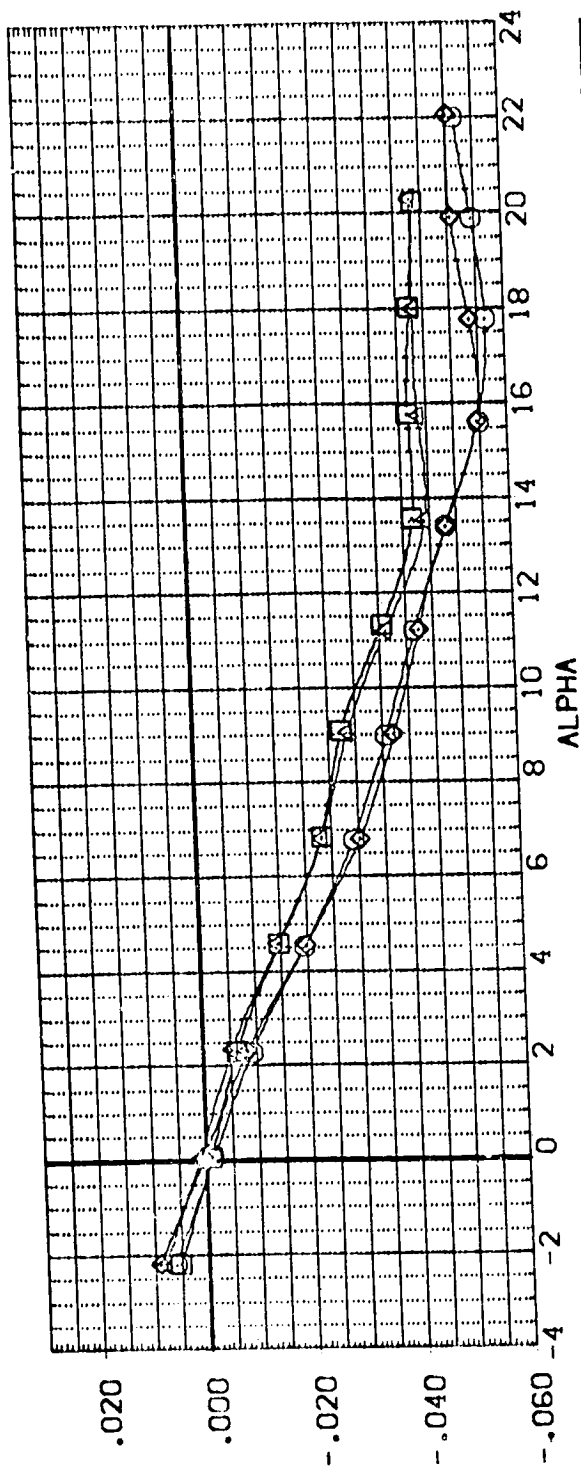
LAMDAE: 46.800 75.000 46.800 75.000

VINGNO: 2.000 2.000 2.000 2.000

RUDFLR: .000 .000 .000 .000

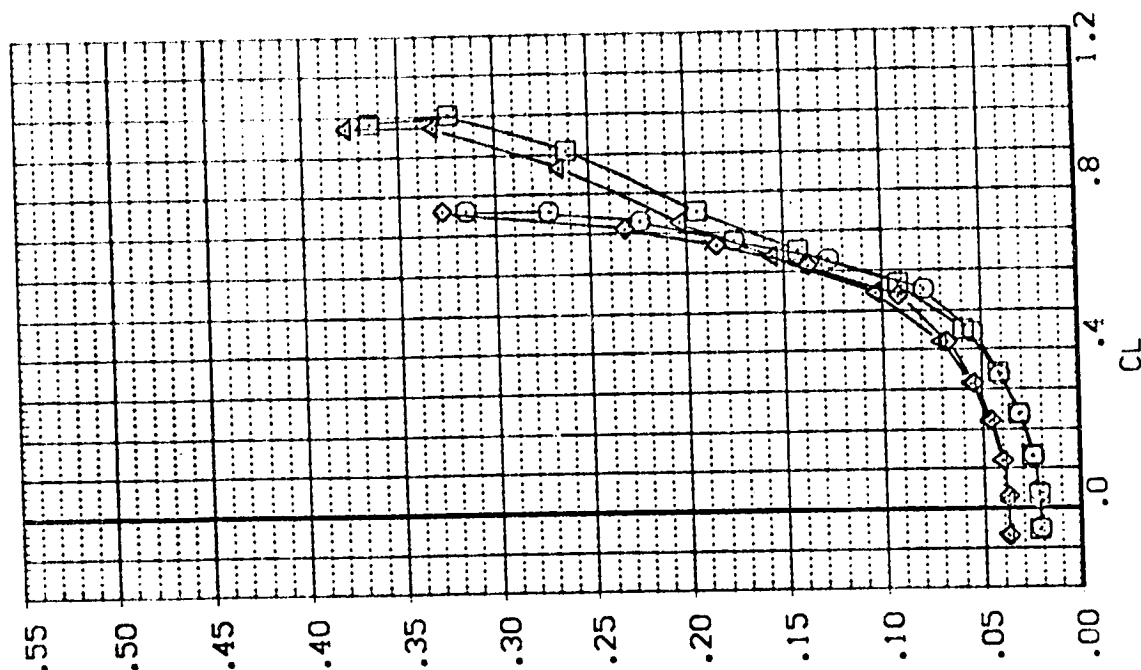
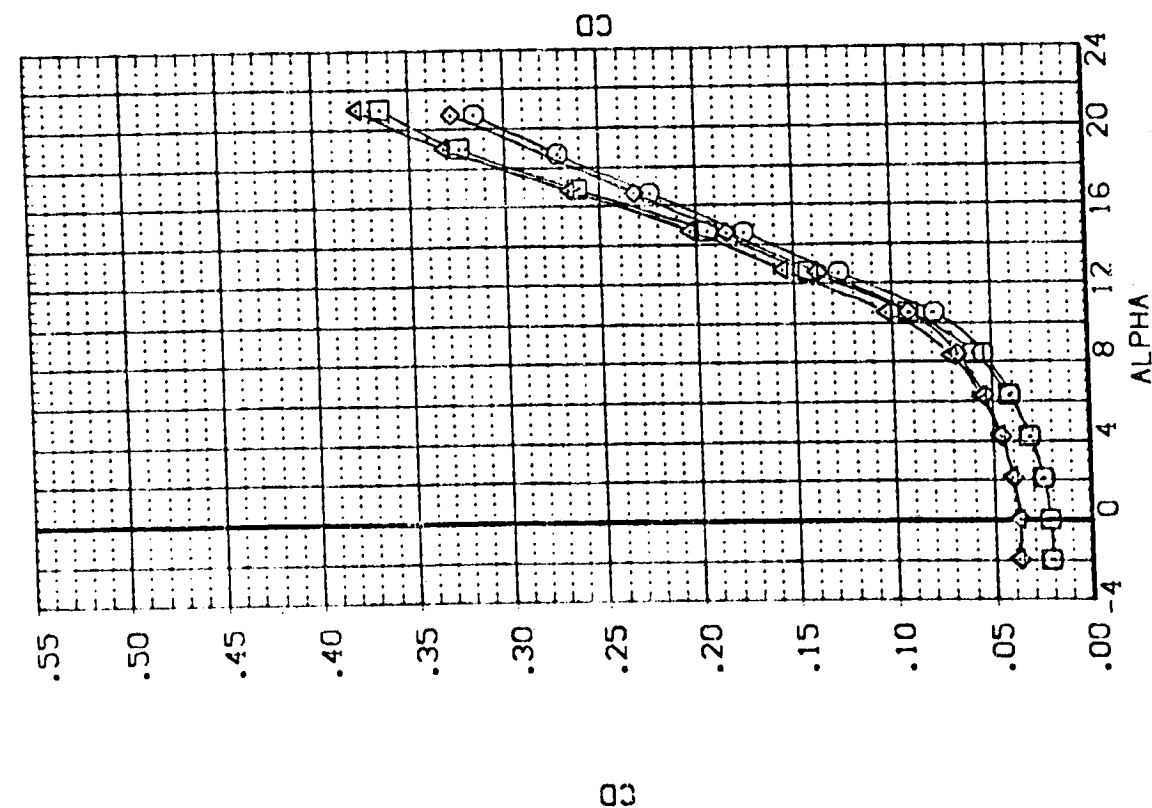
BOFLAP: .000 .000 .000 .000

REFERENCE INFORMATION:
 SREF: 171.4720
 LREF: 23.5100
 BREF: 20.2557
 XMRP: 16.6633
 YMRP: .0000
 ZMRP: .0000
 SCALE: .0188



EFFECT OF RUDDER FLARE (B W2 V FB)

(C)MACH = .98

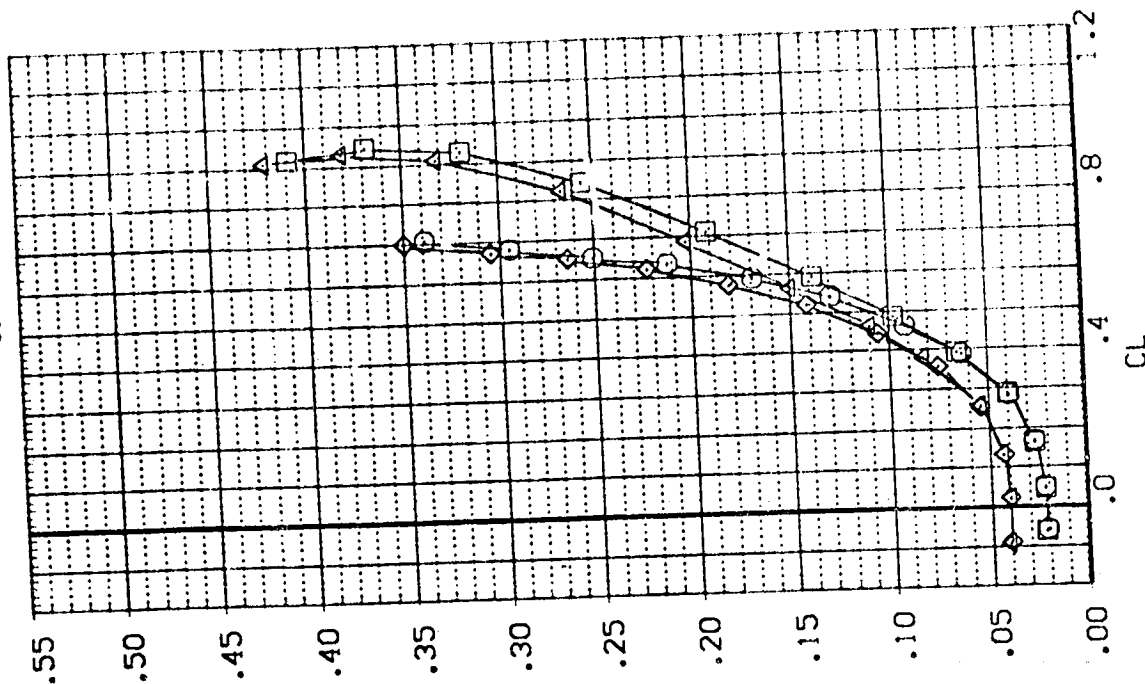
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EFFECT OF RUDDER FLARE (B W2 V FB)

$$C_0MAC_H = .35$$



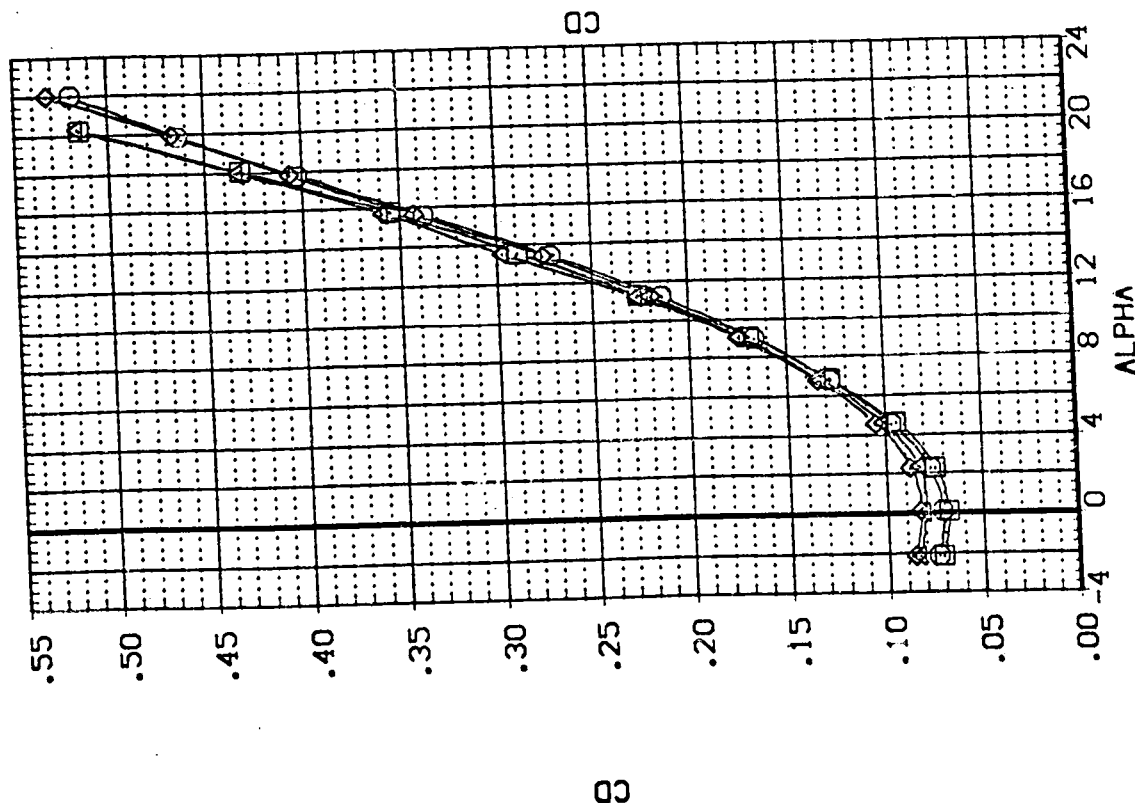
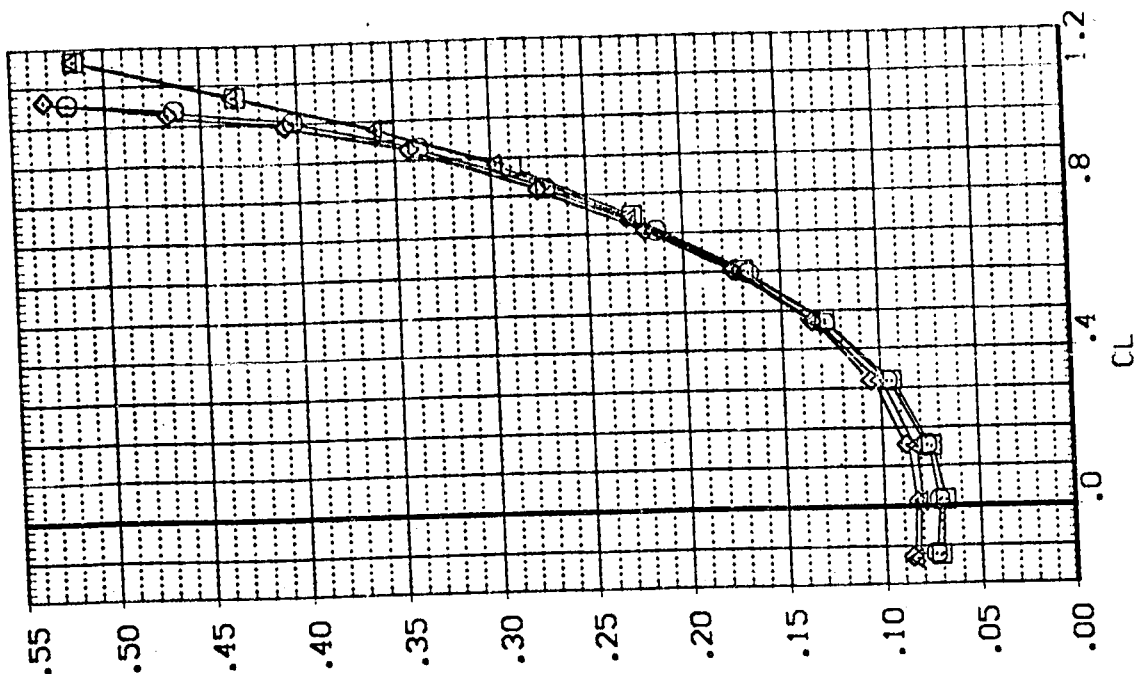
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LANDAF	VINGND	RUOFLR	BOFLAP	REFERENCE INFORMATION
(R3007)	LARC 8-FT TPT 644 LC-100 CRB11TER(SHIPS) (BW2VFB)	45.800	2.000	.000	.000	SREF :71.4722
(R3012)	LARC 8-FT TPT 644 LC-100 CRB11TER(SHIPS) (BW2VFB)	75.000	2.000	.000	.000	REF :25.5100
(R3014)	LARC 8-FT TPT 644 LC-100 CRB11TER(SHIPS) (BW2VFB)	45.800	2.000	.000	.000	REF :25.3597
(R3015)	LARC 8-FT TPT 644 LC-100 CRB11TER(SHIPS) (BW2VFB)	75.000	2.000	.000	.000	REF :25.8533
						VMRP :.0000
						ZMRP :.0000
						SCALE :C188



EFFECT OF RUDDER FLARE (B W2 V FB)

(B)MACH : .80

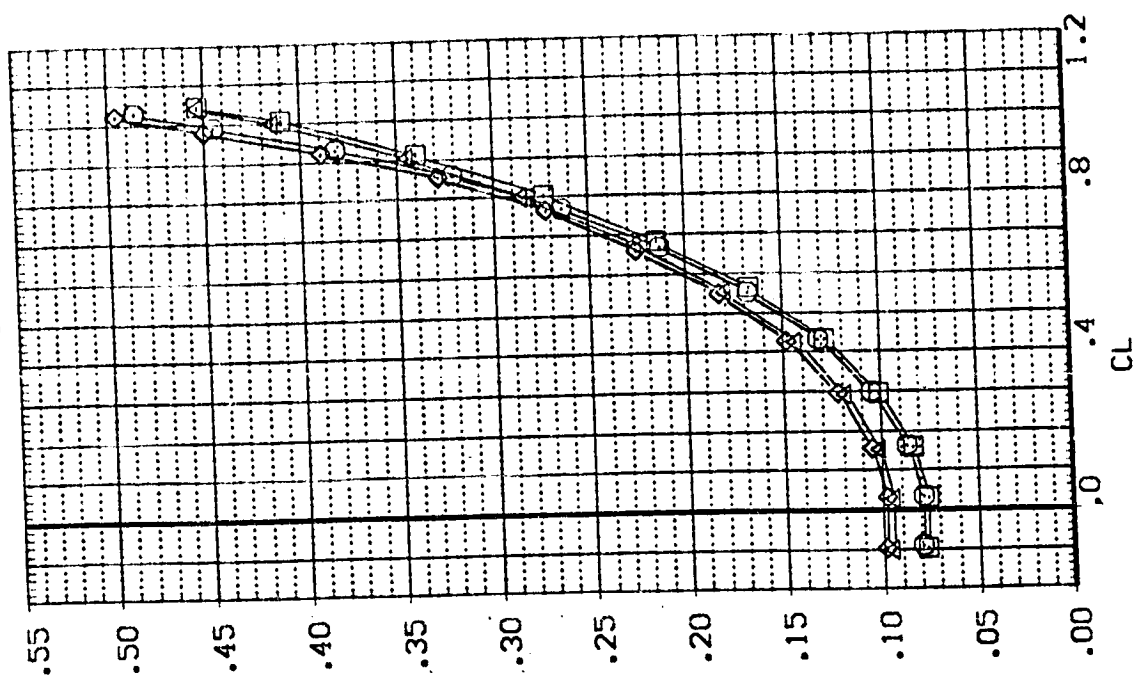
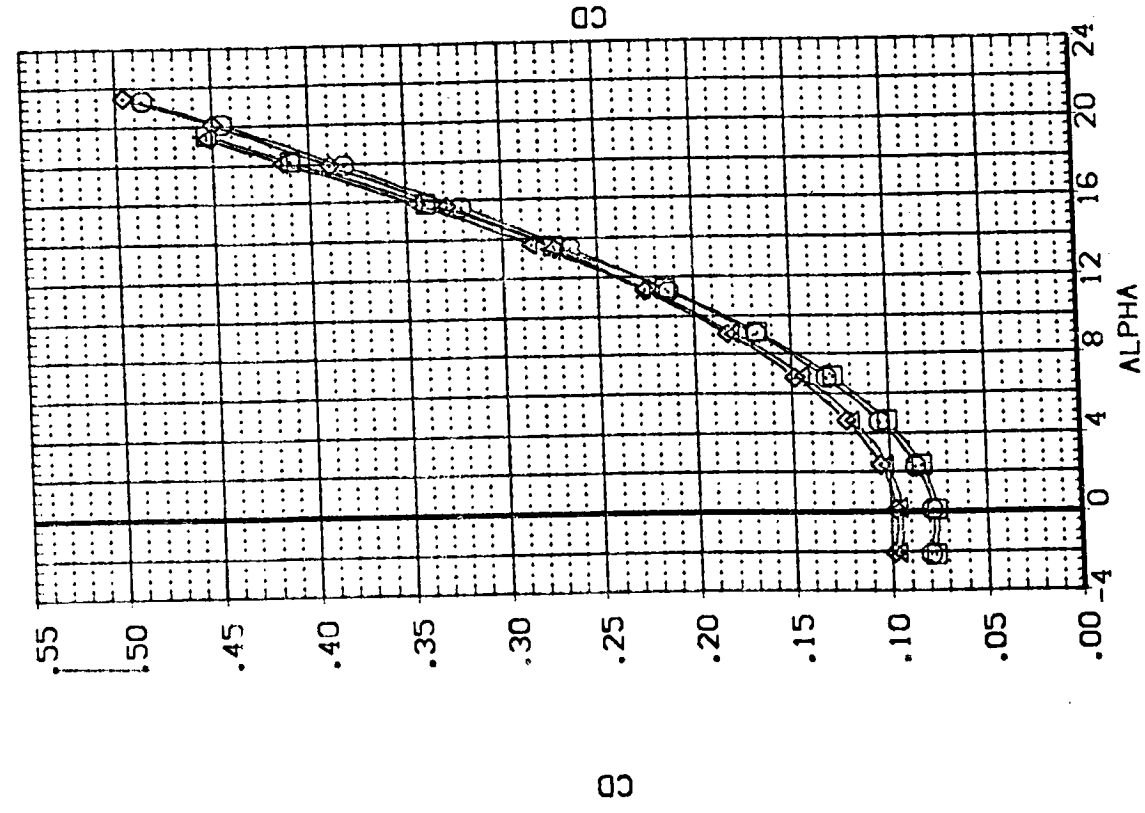
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	VINGNO	RUDFLR	BOFLAP	REFERENCE INFORMATION
(RP5007)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720
(RP5012)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5100
(RP5014)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF 20.3597
(RP5015)	LARC 8-FT TPT 644 LG-100 CRBITER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	XMRP 16.8633
						YMRP .0000
						ZMRP .0000
						SCALE .0188
						SCALE



EFFECT OF RUDDER FLARE (B W2 V FB)

()MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LAMDAF	WINGNO	RUSELR	BOFLAP	REFERENCE INFORMATION
(RPS007)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	46.800	2.000	.000	.000	SREF 171.4720
(RPS012)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	75.000	2.000	.000	.000	LREF 25.5130
(RPS014)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	46.800	2.000	10.000	.000	BREF 25.5130
(RPS015)	LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BV2VFB)	75.000	2.000	10.000	.000	VMRP 15.8633
						VMRP .0000
						ZMRP .0000
						SCALE .0188



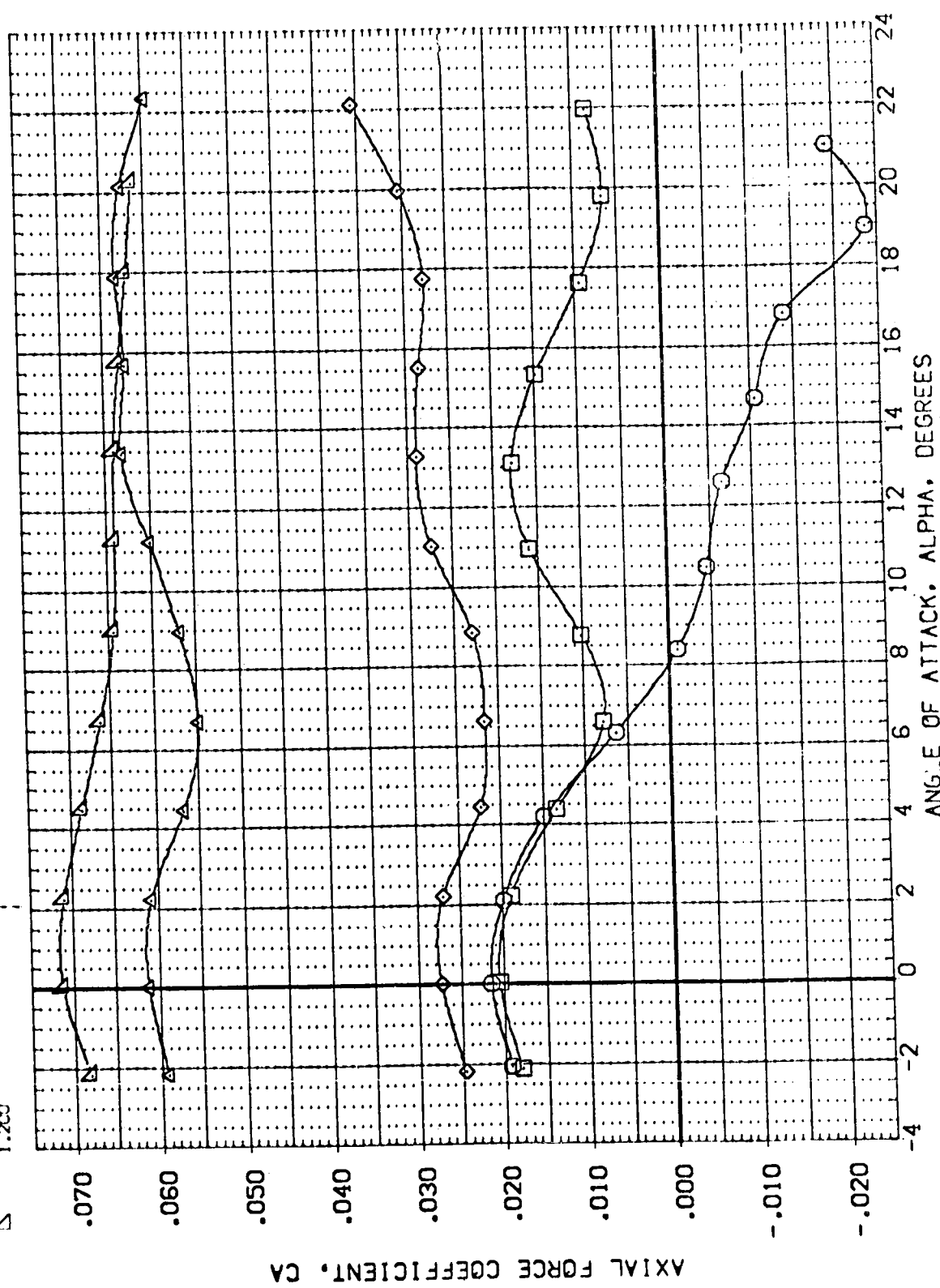
EFFECT OF RUDDER FLARE (B W2 V FB)

(E)MACH = 1.20



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5006)

PARAMETRIC VALUES		REFERENCE INFORMATION	
SYMBOL	MACH	SREF	175.7376
○	.349	LREF	25.5100
□	.799	BREF	19.7156
◇	.900	XMPP	16.8633
△	.980	YMPP	.0000
▽	1.200	ZMPP	.0000
		SCALE	.0188
		SCALE	.0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W1 V FB)

SYMBOL

MACH

BETA

PARAMETRIC VALUES

WINGNO

ELEVTR

RJOF LR

1.000

.000

.000

.000

.000

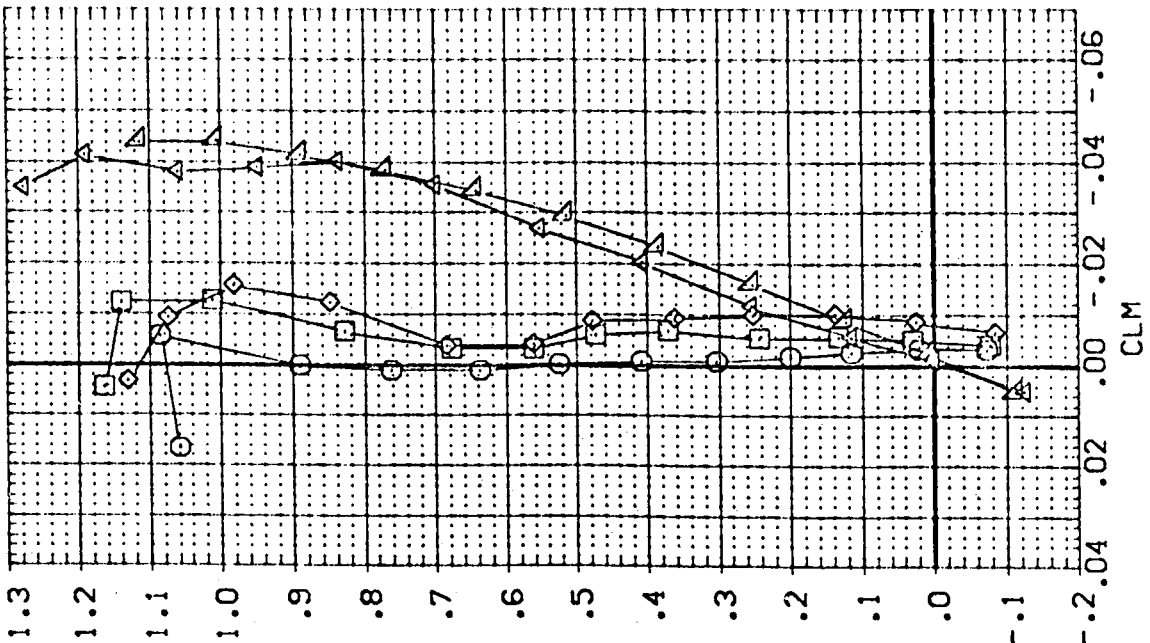
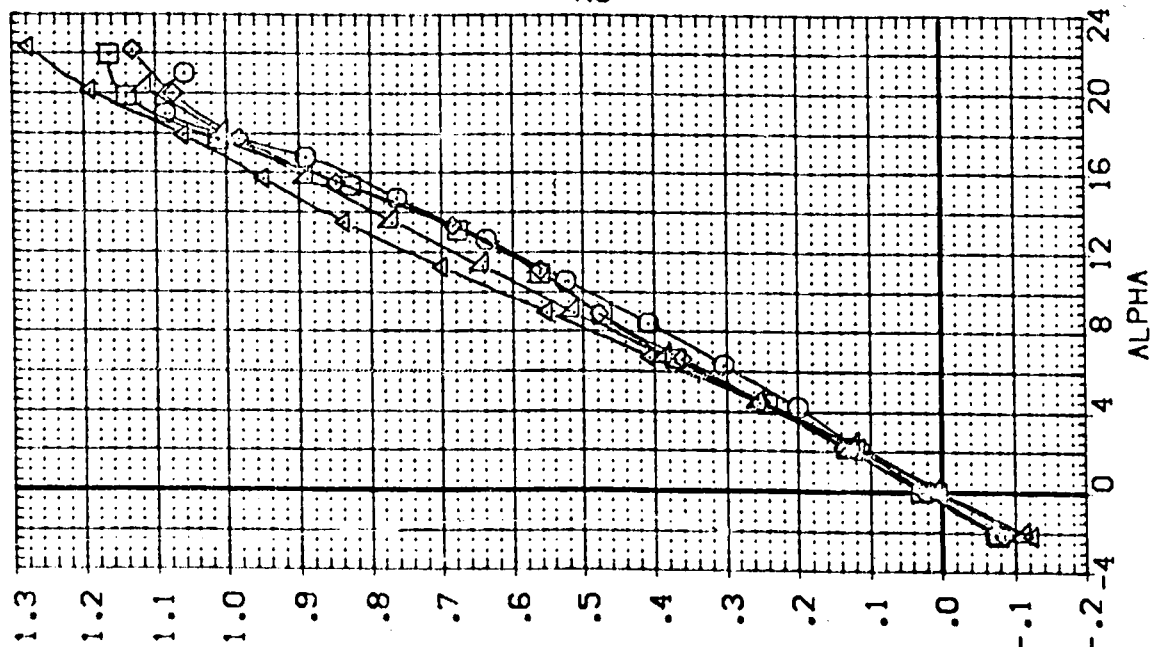
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EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W1 V FB)

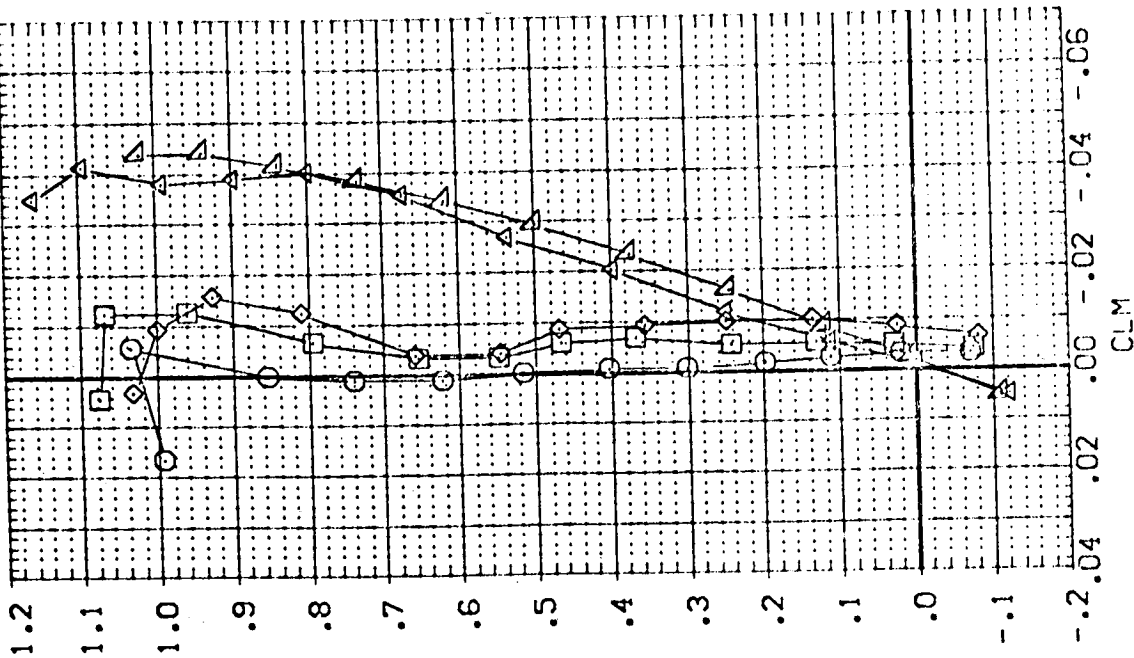
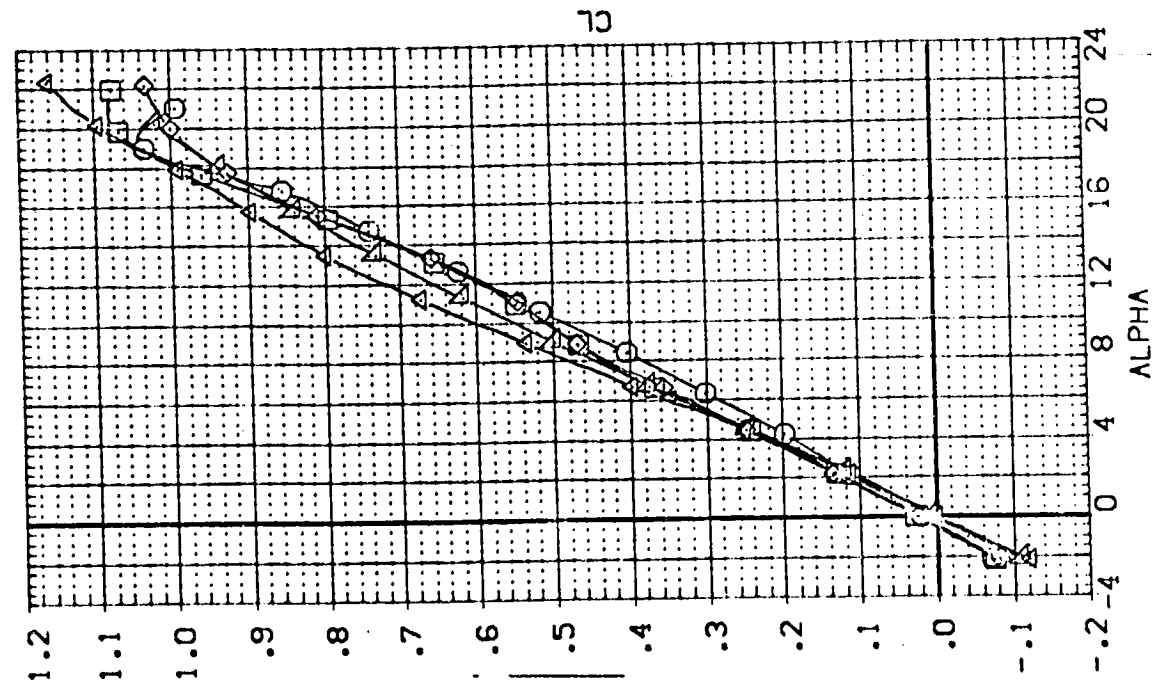


LARC 8-FT TP1 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5006)

SYMB.
 ○ □ ◇ △

MACH .349 BETA .000 WINGNO 1.000
 .799 LAMDAF 78.000 ELEVTR .000
 .900 BOFLAP .000 R.OFLR .000
 .980
 1.200

REFERENCE INFORMATION
 SREF 175.7376 SQ. IN.
 LREF 25.5100 INCHES
 BREF 9.7156 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0189



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW1 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (RP5006)

SYMBOL

MACH

BETA

PARAMETRIC VALUES

1.000

.000

.000

.000

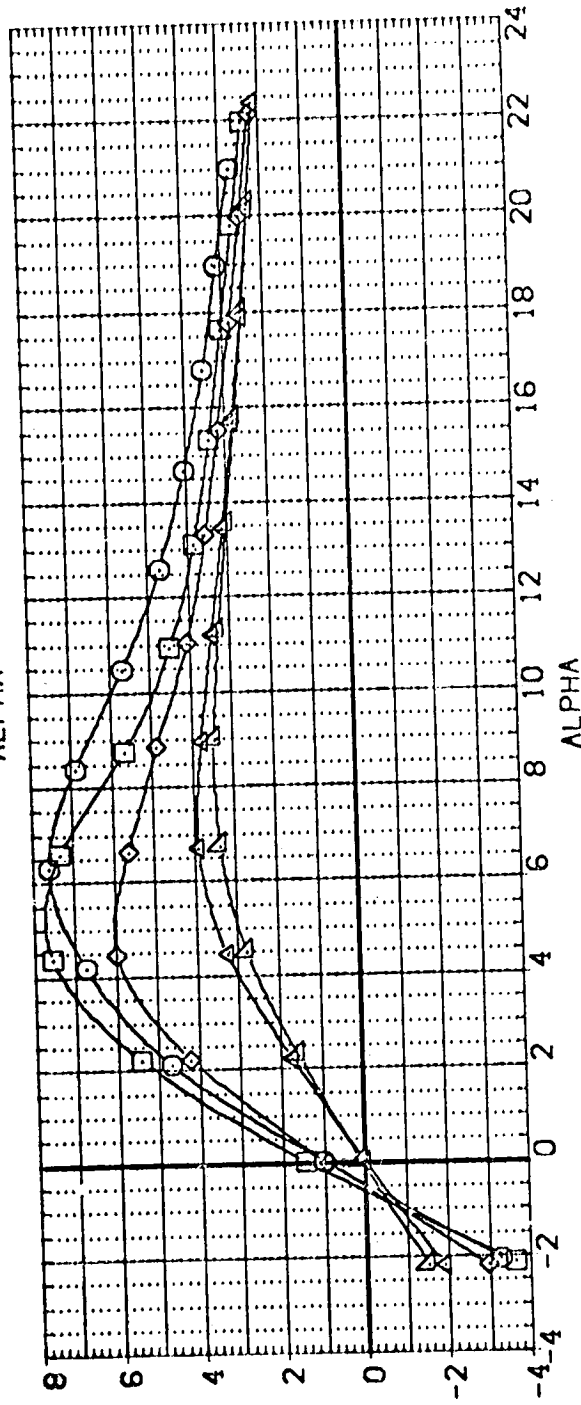
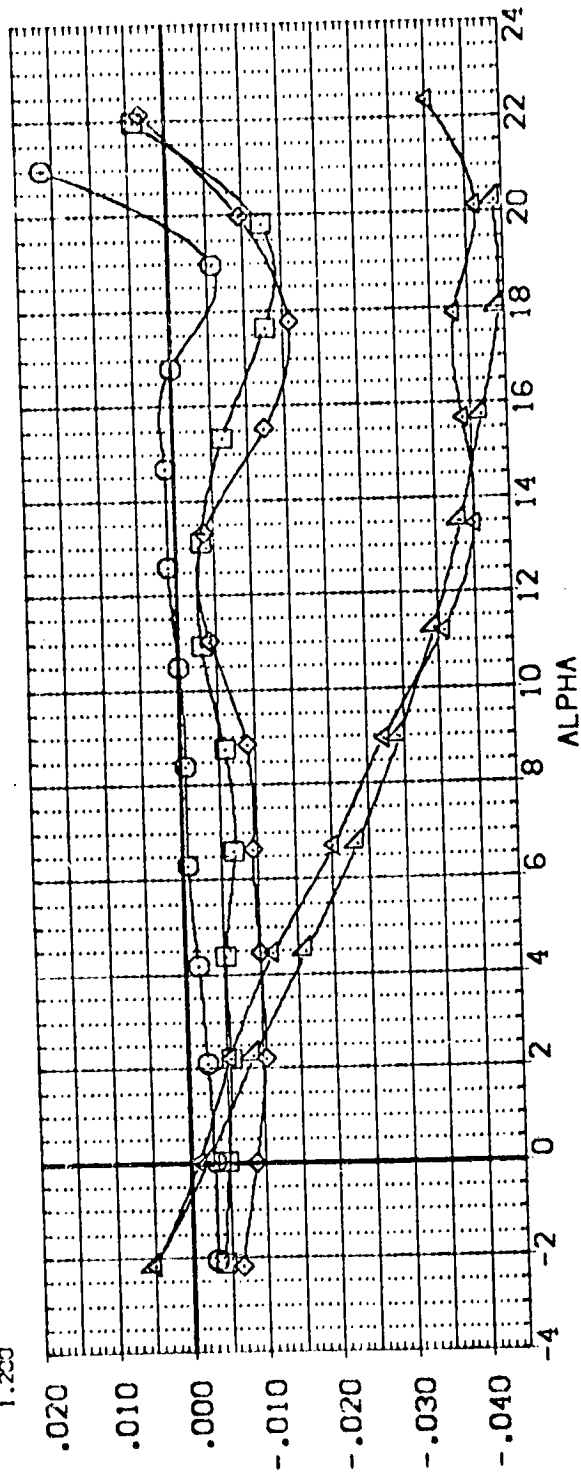
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REFERENCE INFORMATION

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REF 25.5100
BREF 19.7155
XREF 15.8633
YREF 10.0000
ZREF 10.0000
SCALE 10.88



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W1 V FB)



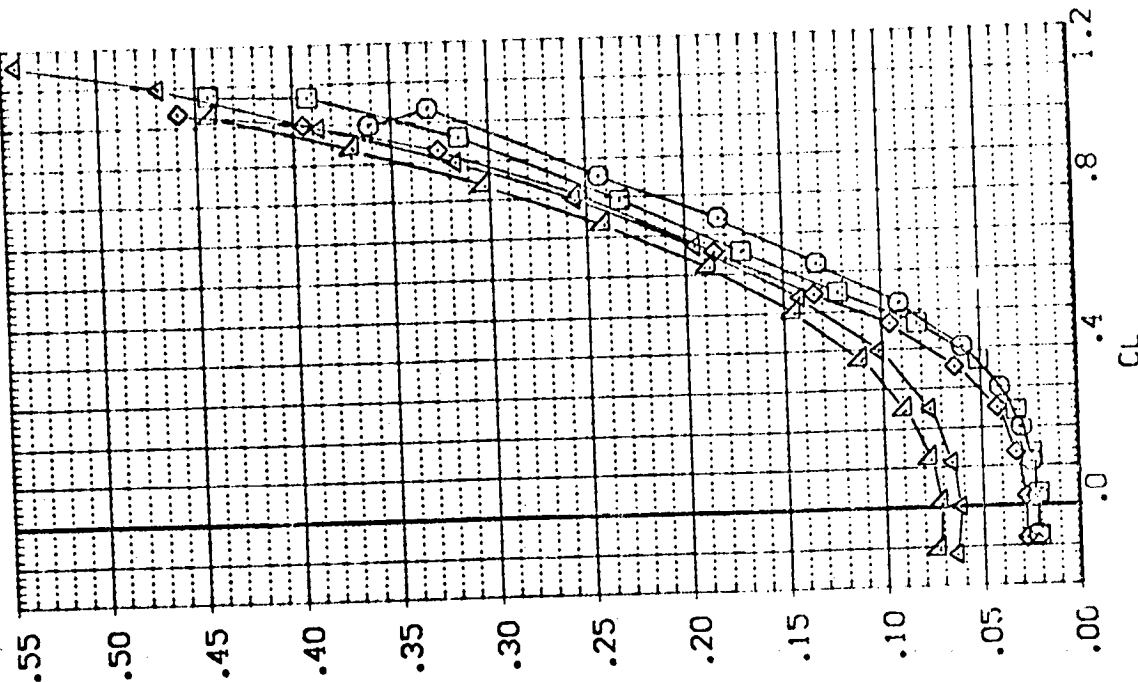
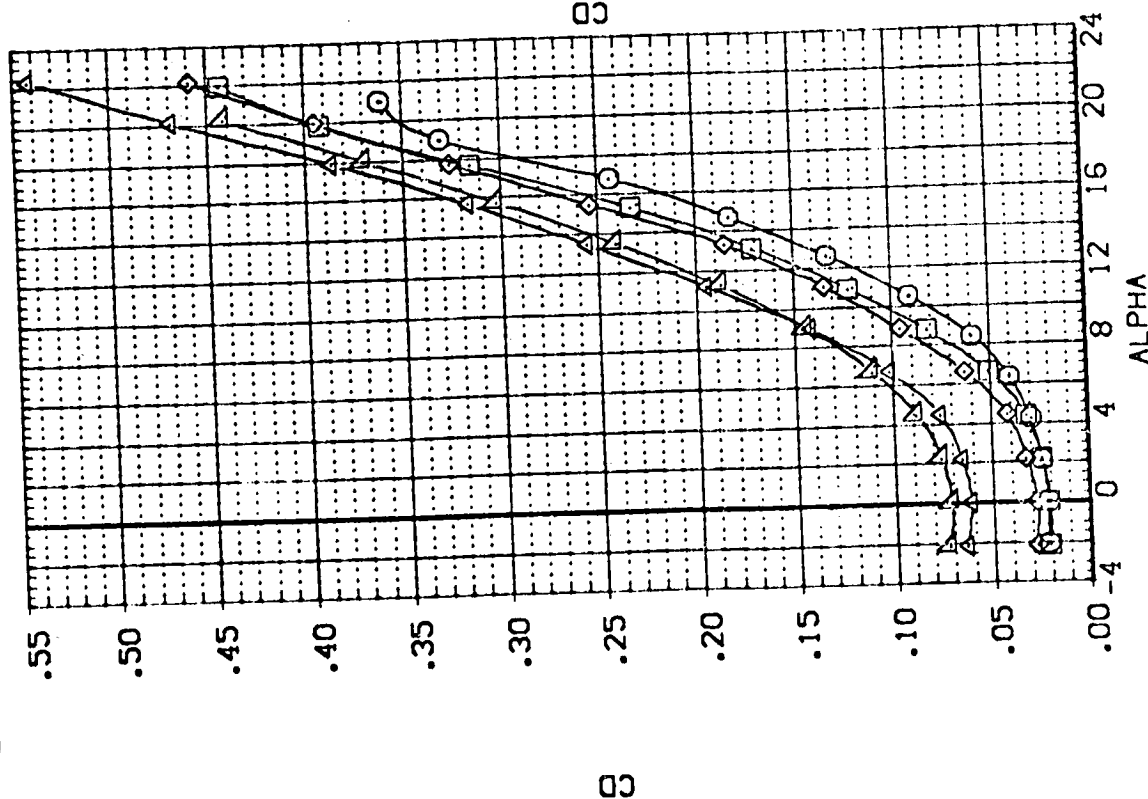
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VF8) (RP5006)

SYMBOL
 ○ □ ◇ △

MACH
 .349
 .799
 .900
 .980
 1.200

PARAMETRIC VALUES
 BETA .000
 LAMDAF 78.000
 BOFLAP .000
 WINGG 1.000
 ELEVTR .000
 RUOFLR .000

REFERENCE INFORMATION
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 XMRP 16.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0189

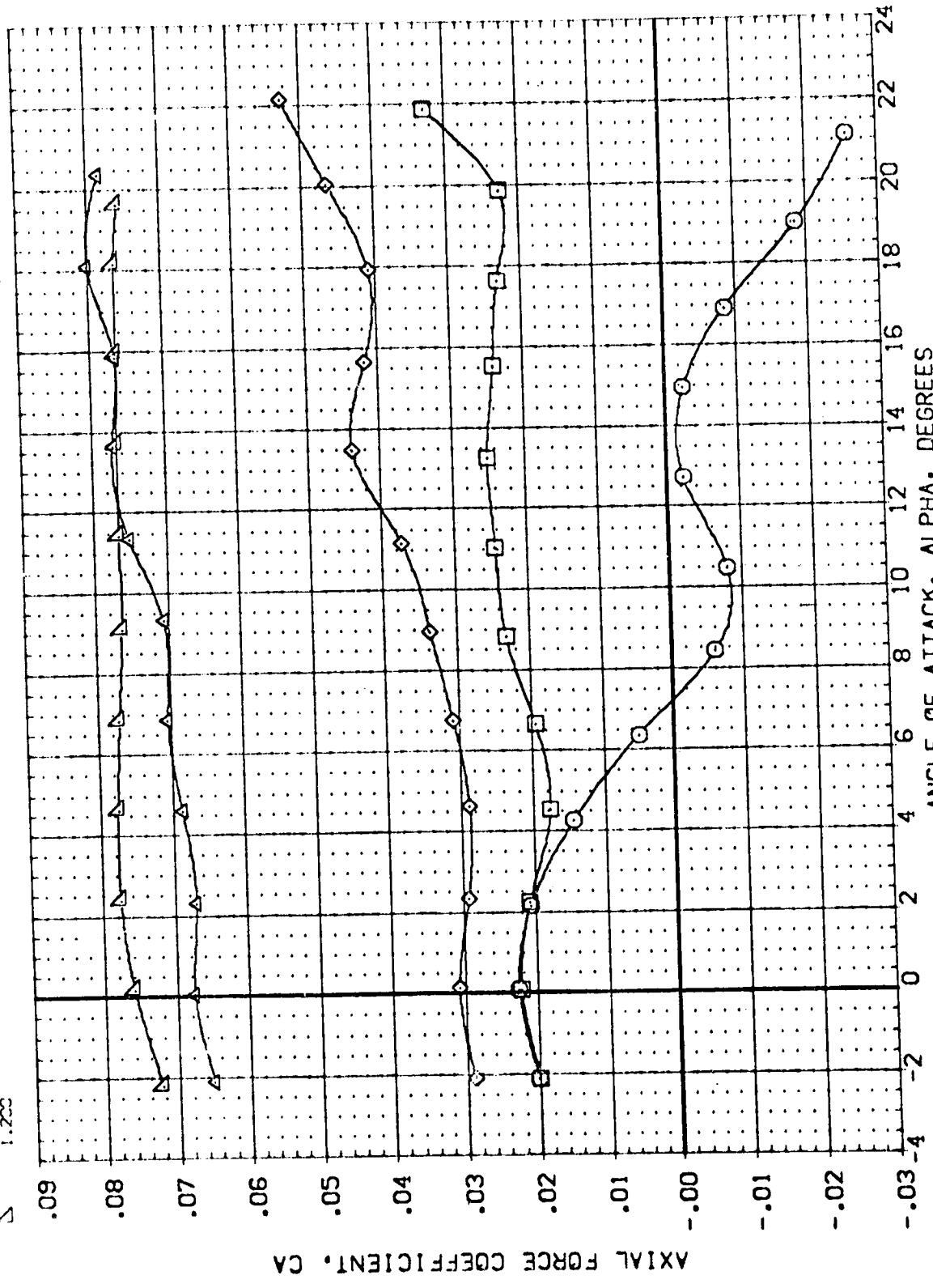


EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW1 VF8)

SYMBOL MACH
○ .348
□ .800
◇ .900
△ .980
▽ 1.200

PARAMETRIC VALUES
BETA .000
LAMDAF 78.000
90FLAP .000
VINGNO 2.000
LEVTR .000
RUDFLR .000

REFERENCE INFORMATION
SPEC 171.4720
LREF 25.5100
SREF 22.3597
XREF 16.8533
VREF .0000
ZREF .0000
SCALE .0168



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG. (B W2 V FB)



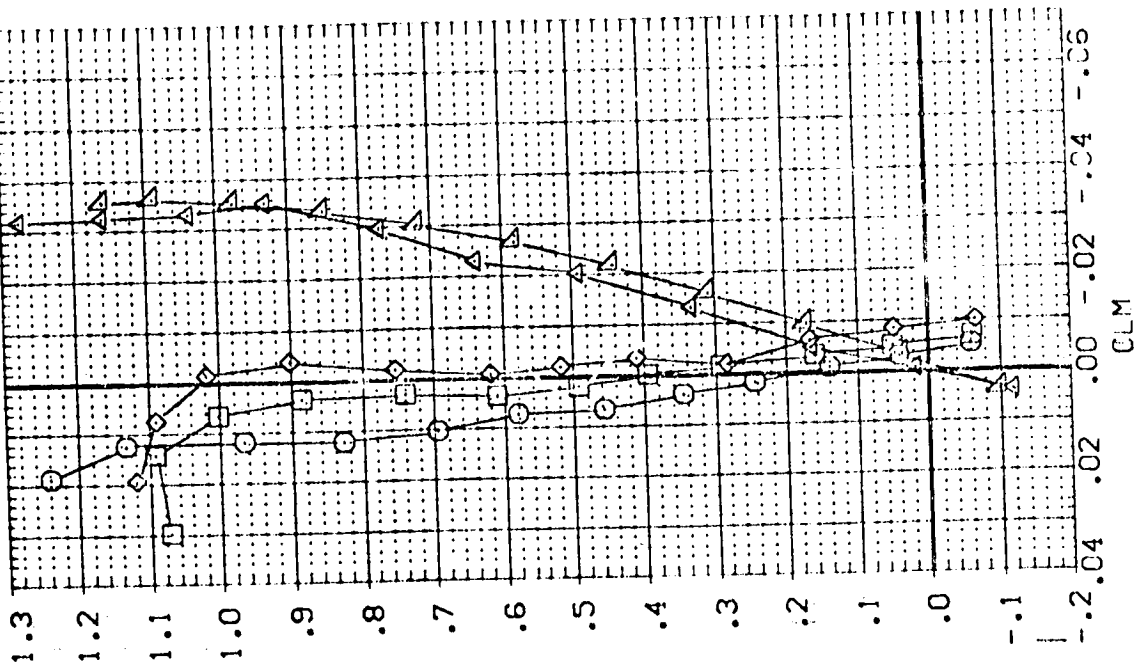
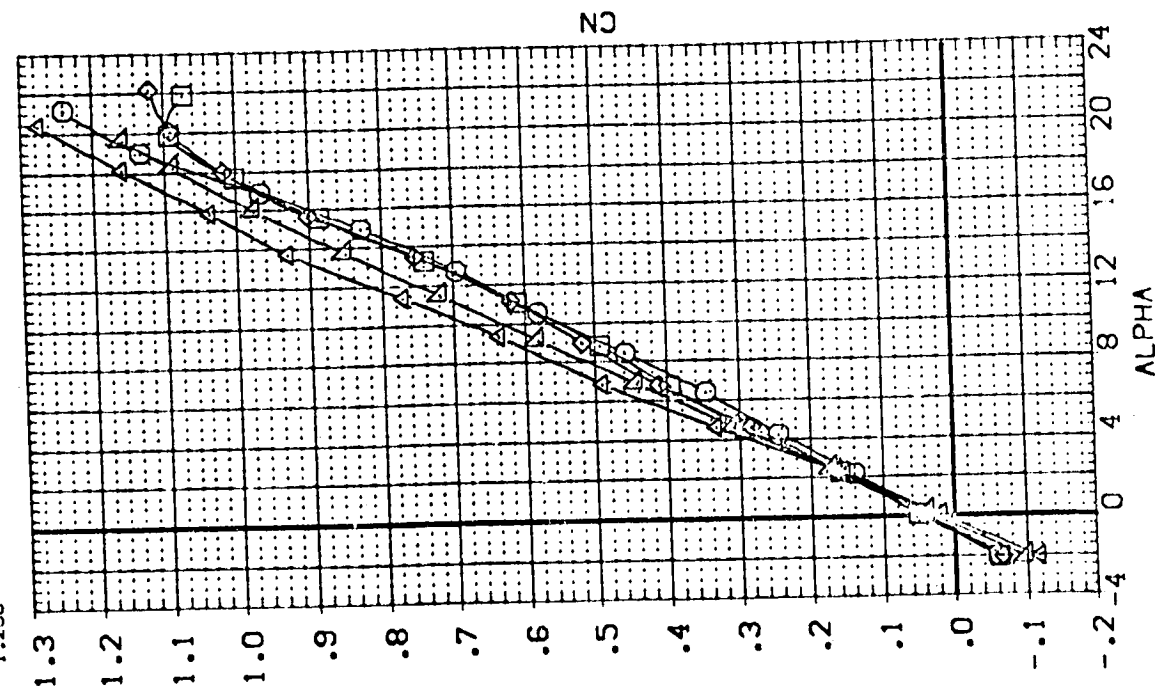
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5013)

SYMBOL
□
◇
△

MACH
.348
.800
.900
.980
1.200

PARAMETRIC VALUES
BETA .000 VINGO 2.000
LANDAF 78.000 ELEVTR .000
BOFLAP .000 RJDFLR .000

REFERENCE INFORMATION
SREF 171.4720
LREF 25.5100
BREF 20.3597
XMRP 16.8533
YMRP .0000
ZMRP .0000
SCALE 0.88

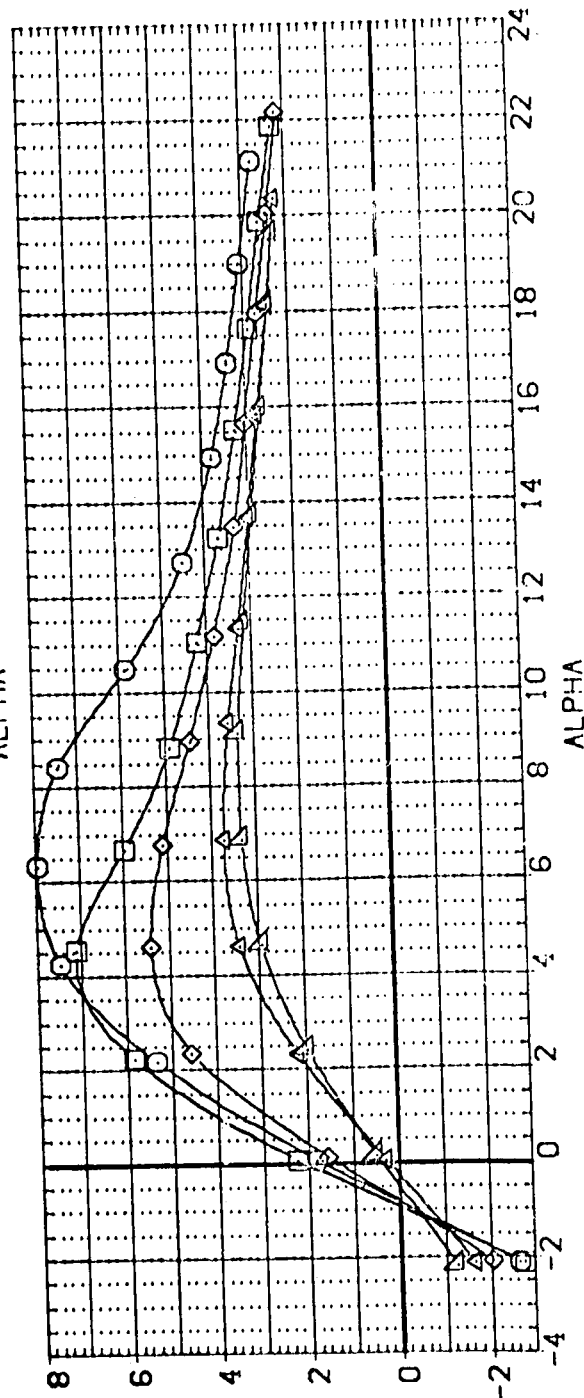
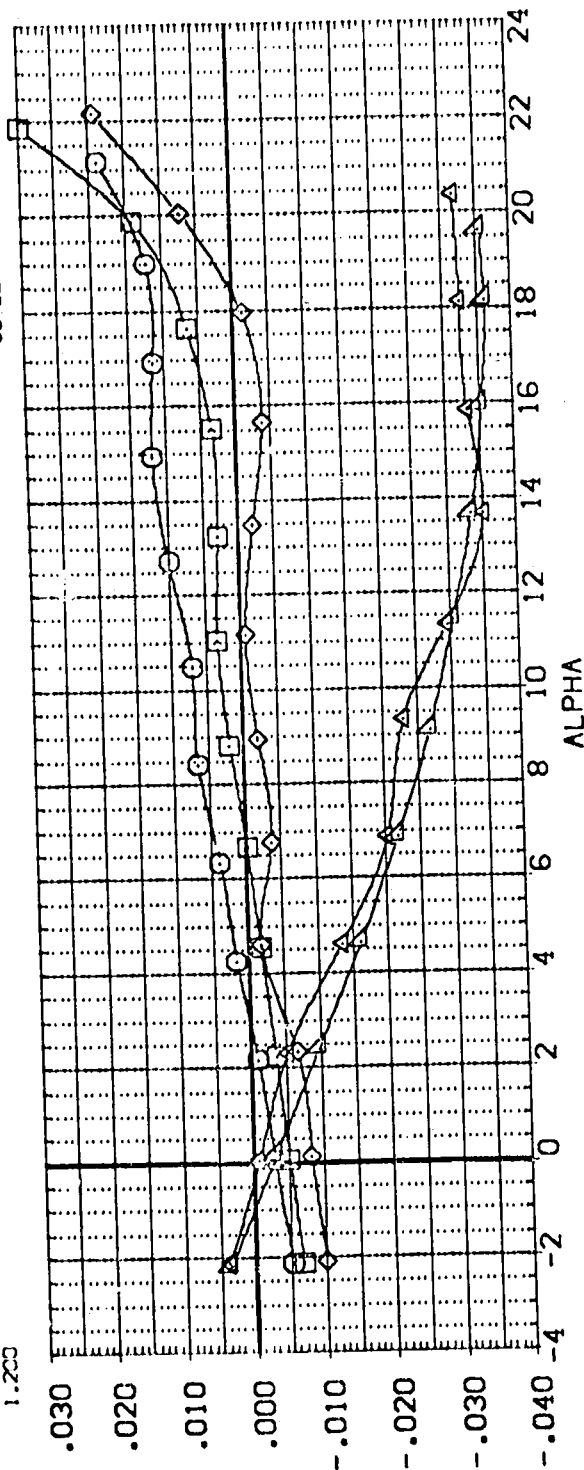


EFFECT OF MACH NUMBER, LANDAF = 78 DEG, (BW2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5013)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.348		.000 VINGNO	SREF 171.4720
□	.800	LAMDAF	78.000 ELEVTR	LRUF 25.5100
◇	.900	BOFLAP	.000 R-OF-FLR	BRUF 20.3597
△	.980			VMRP 16.8533
▽	1.200			CMRP .0000
				ZMRP .0000
				SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW2 VFB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VF8) (RP5013)

SYMBOL
 ○ □ ◇ △ ▽

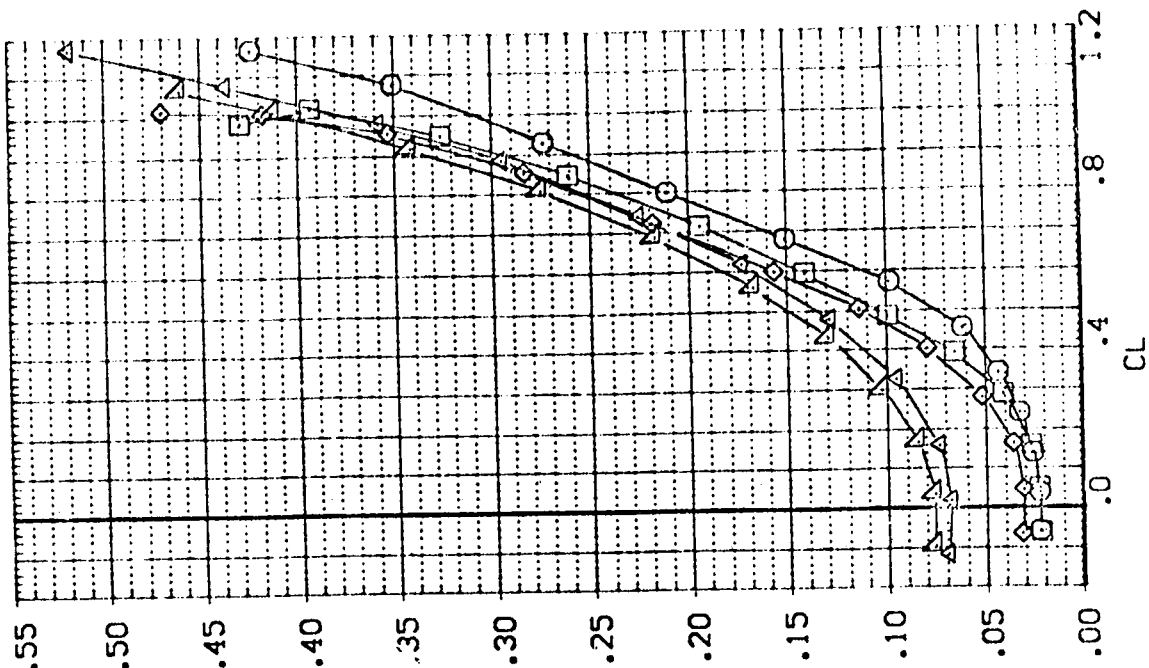
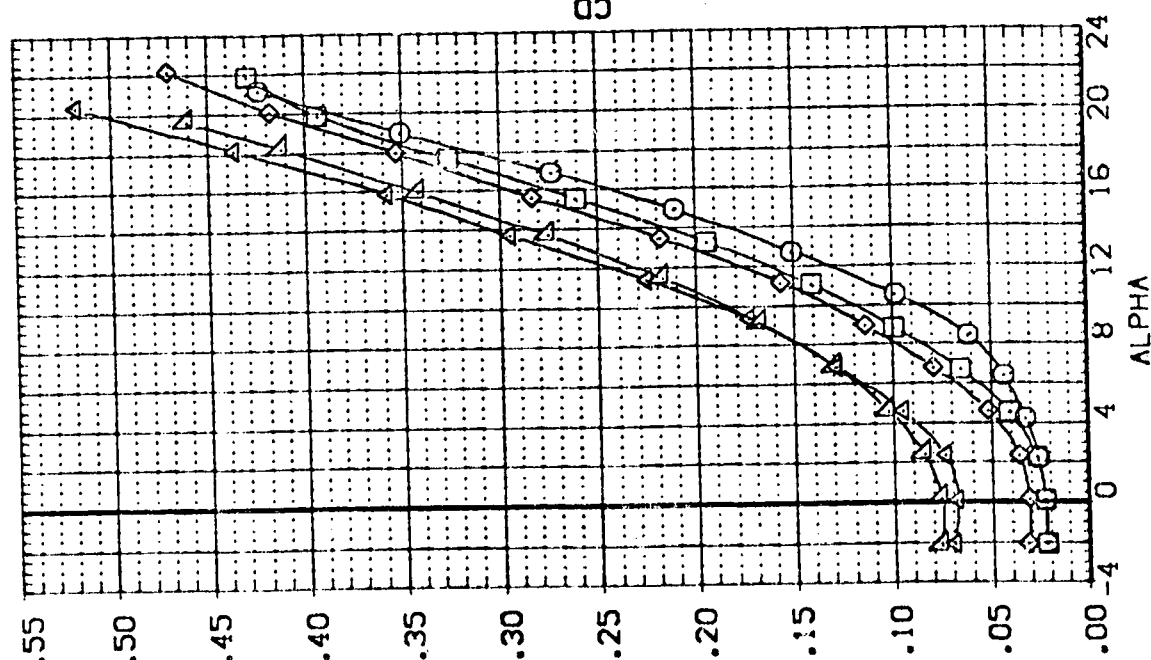
MACH
 .348
 .800
 .900
 .980
 1.200

BETA
 LAMDAF
 BCFLAP

PARAMETRIC VALUES
 .000 WINGNO
 78.000 ELEVTR
 .000 RUJFLR

2.000
 .000
 .000

REFERENCE INFORMATION
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 BREF 20.3597
 XREF 16.8633
 YREF .0000
 ZREF .0000
 SCALE 0.188

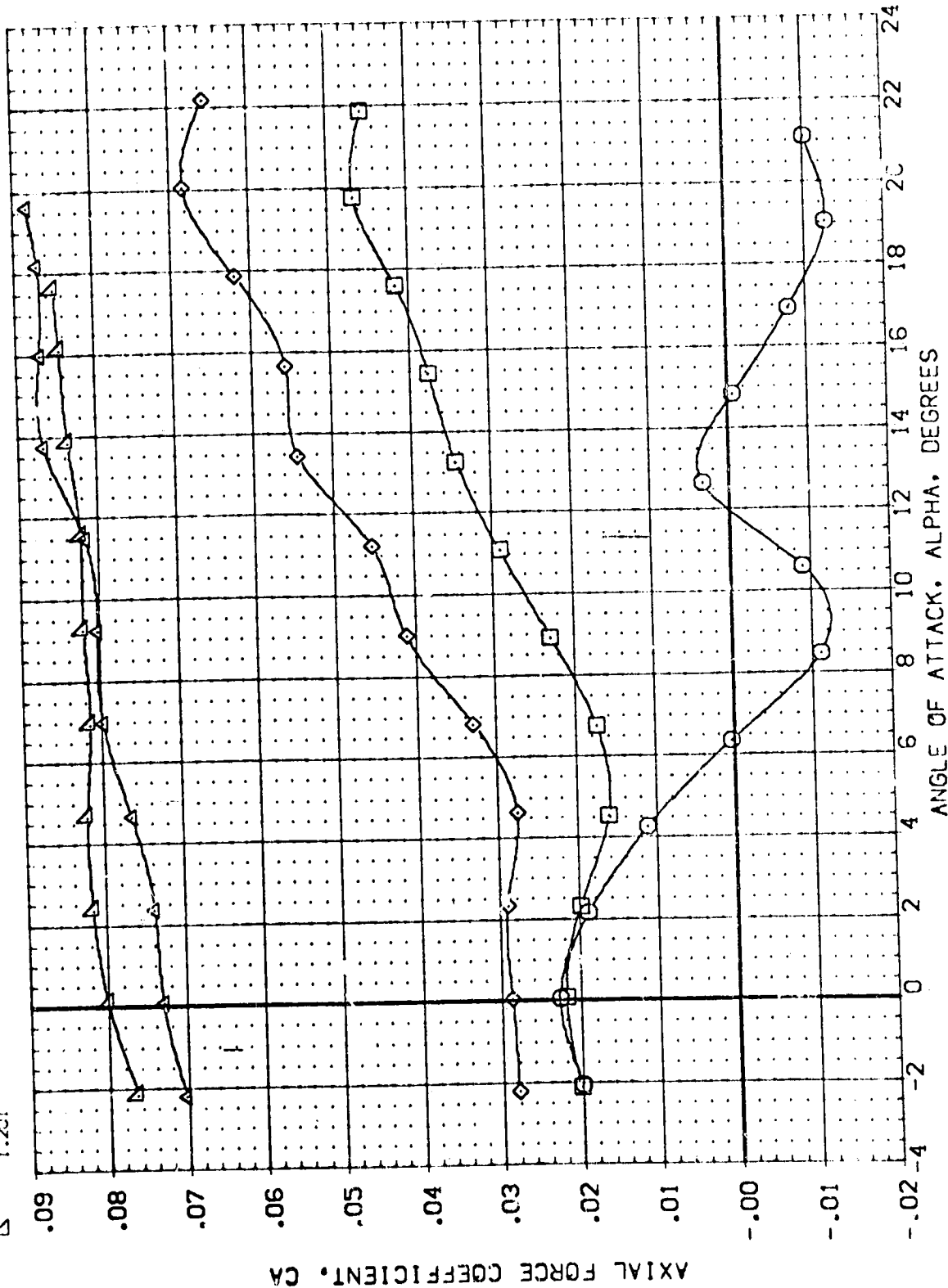


EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL	MACH	PETA	PARAMETRIC VALUES				REFERENCE INFORMATION			
			CCO	VINGO	3.000		SREF	173.1312	SCALIN	
○	.349	LAMDAF	.000	ELEVTR	.000		REF	25.5100	INCHES	
□	.800	BDFLAP	.000	RJOFTR	.000		BREF	20.8096	INCHES	
◇	.899						XREF	16.8833	INCHES	
△	.980						ZREF	.0000	INCHES	
	1.201						SCALE	.0188	SCALE	



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW3 V FB)

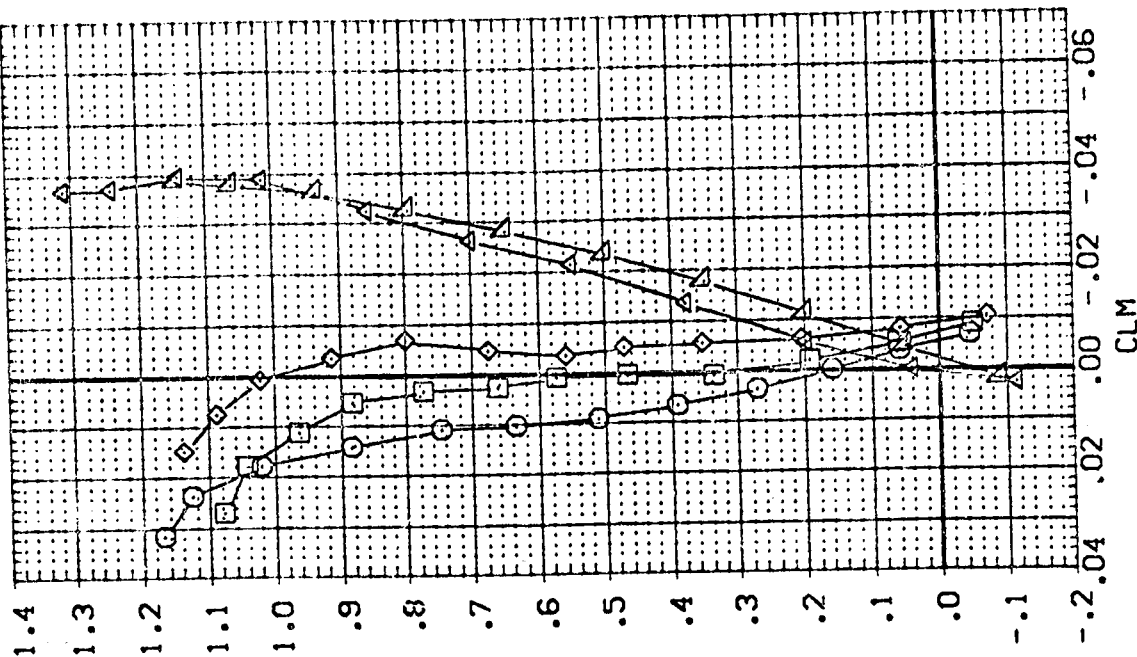
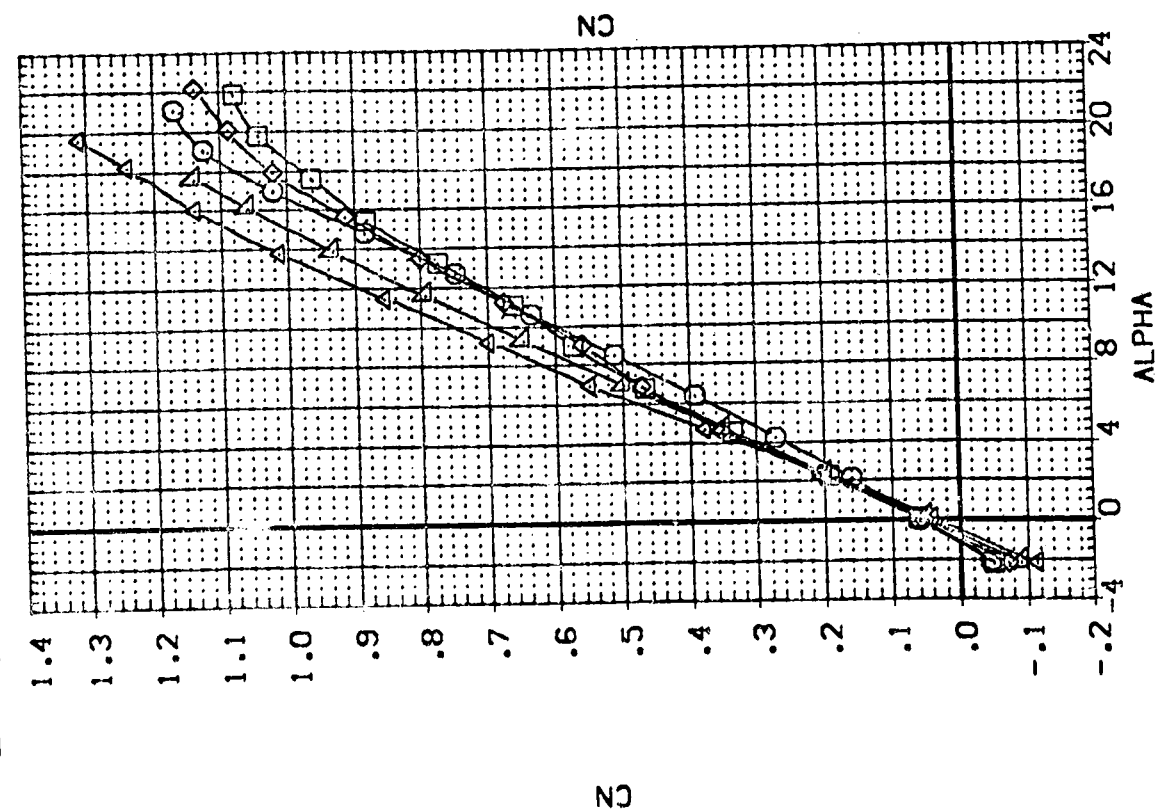
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL
 ○ □ ◇ △

MACH
 .343
 .800
 .899
 .980
 1.201

PARAMETRIC VALUES
 BETA .000
 LAMDAF 79.000
 SOFLAP .000
 VINGNO 3.000
 ELEVTR .000
 RUOFLR .000

REFERENCE INFORMATION
 SREF 179.1312
 LREF 25.5100
 BREF 22.9036
 XMRP 15.8633
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)

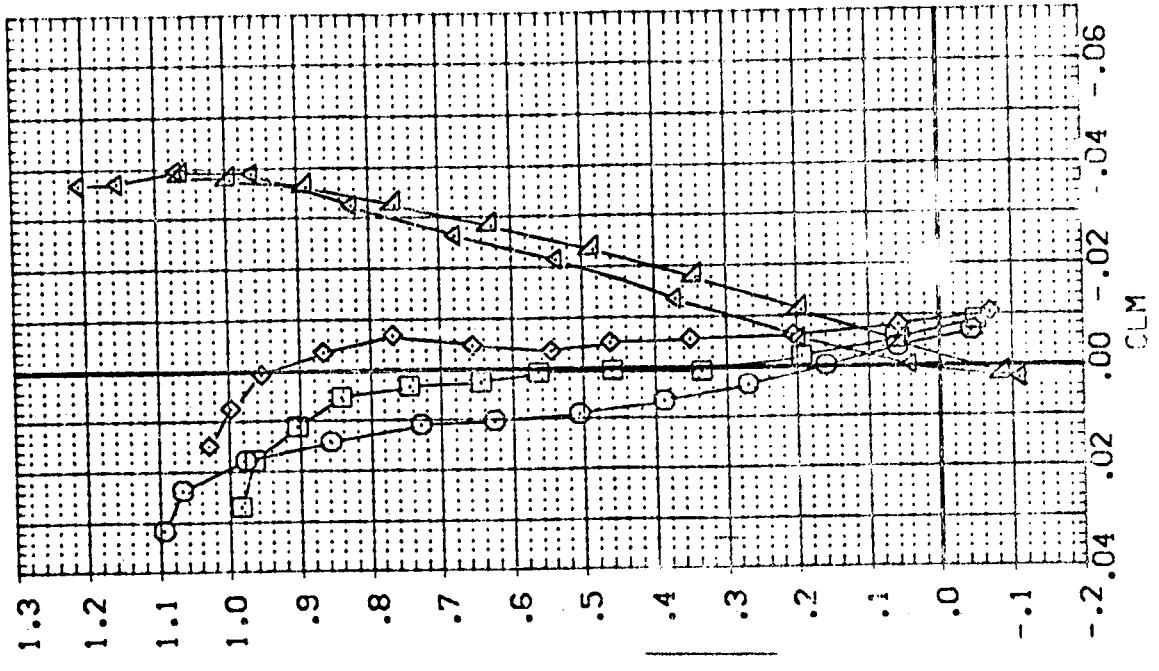
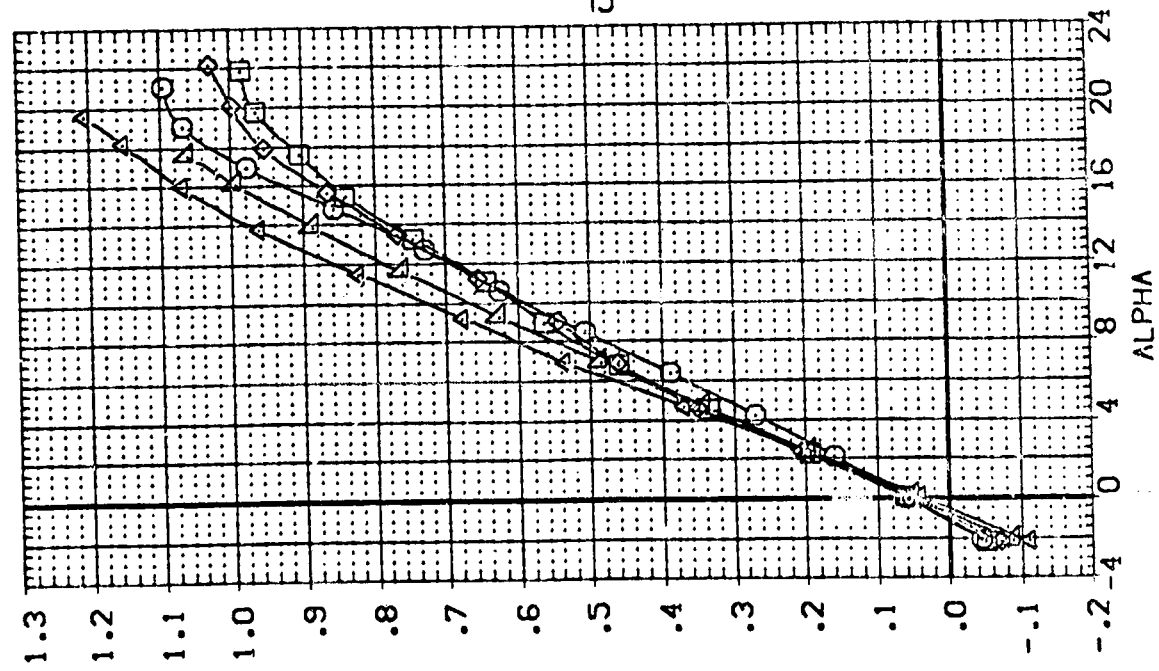
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL
 ○ □ ◇ △ ▽

MACH
 .349
 .800
 .899
 .980
 1.201

PARAMETRIC VALUES
 BETA .000
 LAMDAF 78.000
 BOFLAP .000
 VINGNO 3.000
 ELEVTR .000
 RUOFLR .000

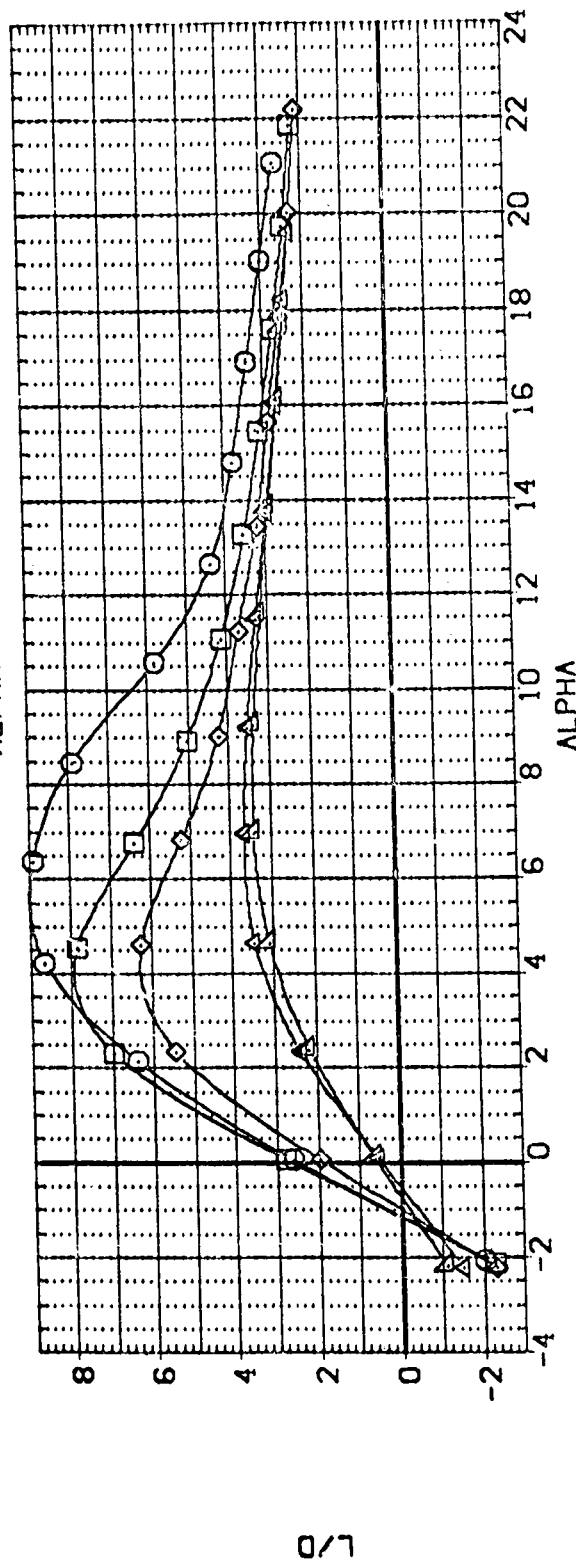
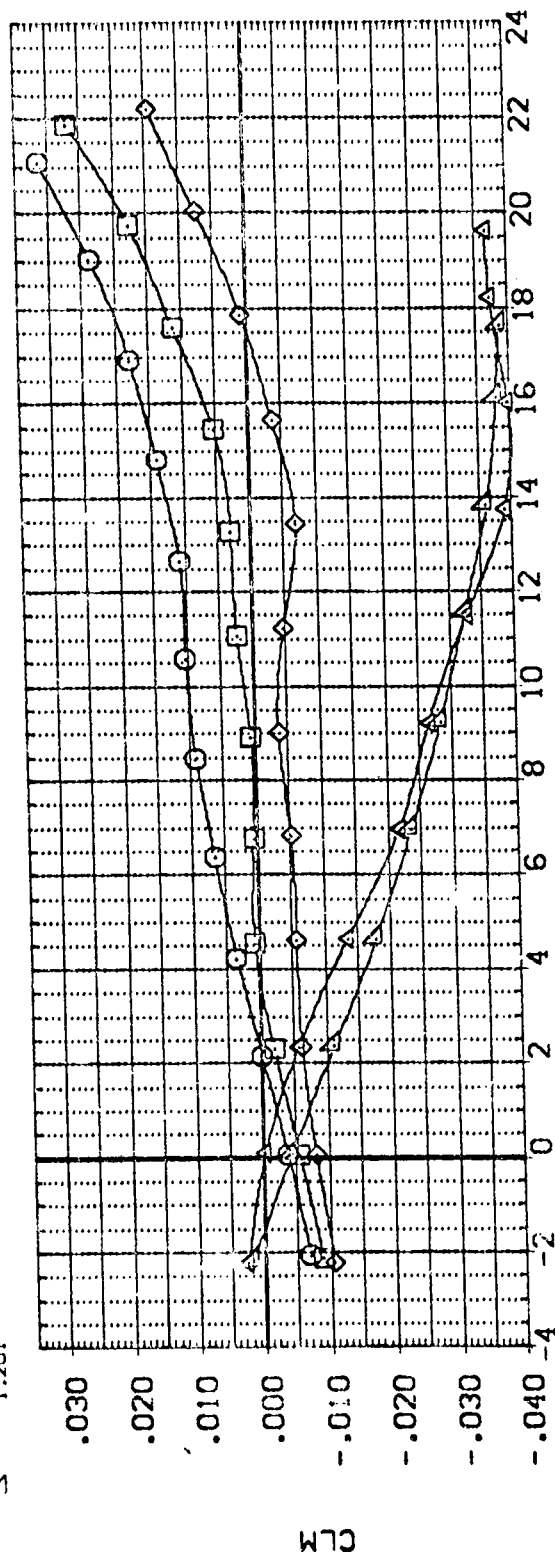
REFERENCE INFORMATION
 SPREF 173.1312
 LREF 25.5100
 BREF 20.5055
 XMRP 15.8533
 YMRP .0000
 ZMRP .0000
 SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (BW3 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	.349	.000	VINGNO	SREF 173.1312
□	.800	.000	ELEVTR	LREF 29.5100
◇	.899	.000	RJDFLR	SREF 20.8033
△	.980	.000		XREF 16.8633
▽	1.201	.000		YREF .0000
				ZREF .0000
				SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5022)

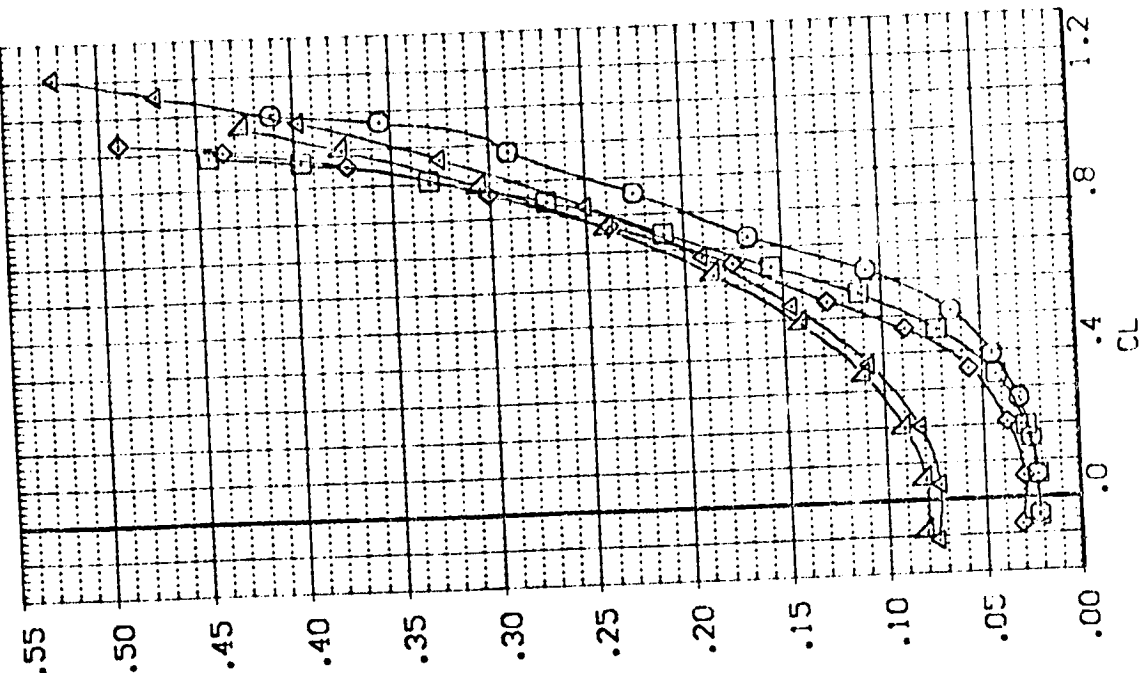
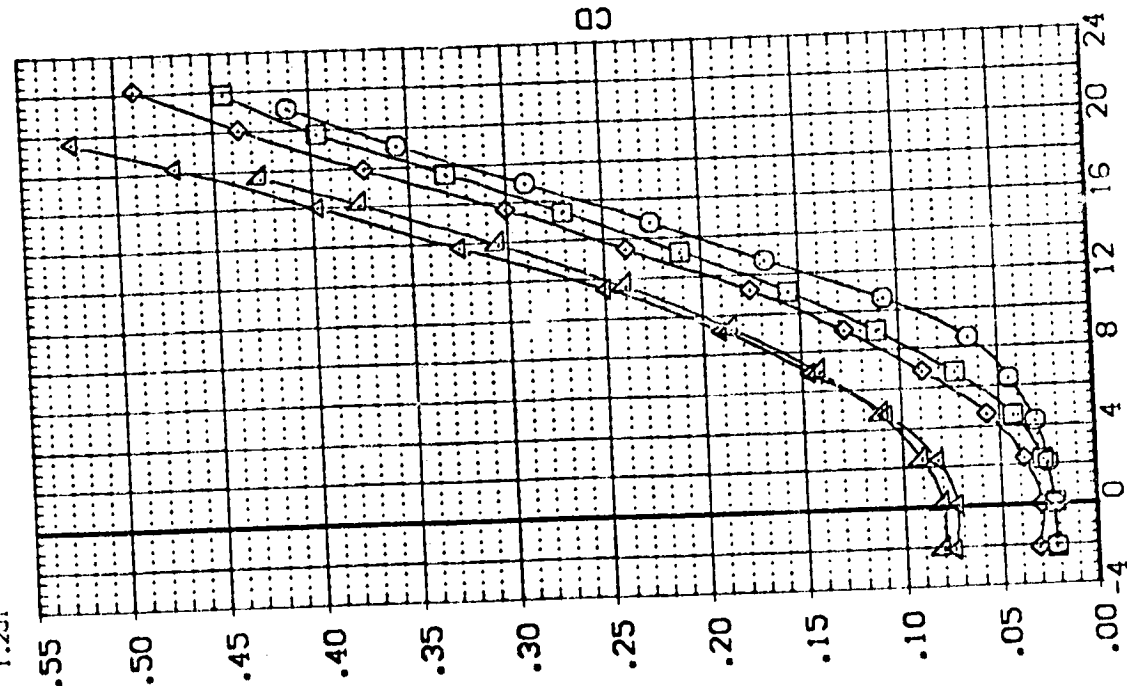
SYMBOL
 □ ◇ △

MACH
 .349
 .800
 .899
 .980
 1.201

PARAMETRIC VALUES
 .000 VINGNO 3.000
 78.000 ELEVTR .000
 .000 RJOFLR .000

BETA
 LAMDAF
 BOFLAP

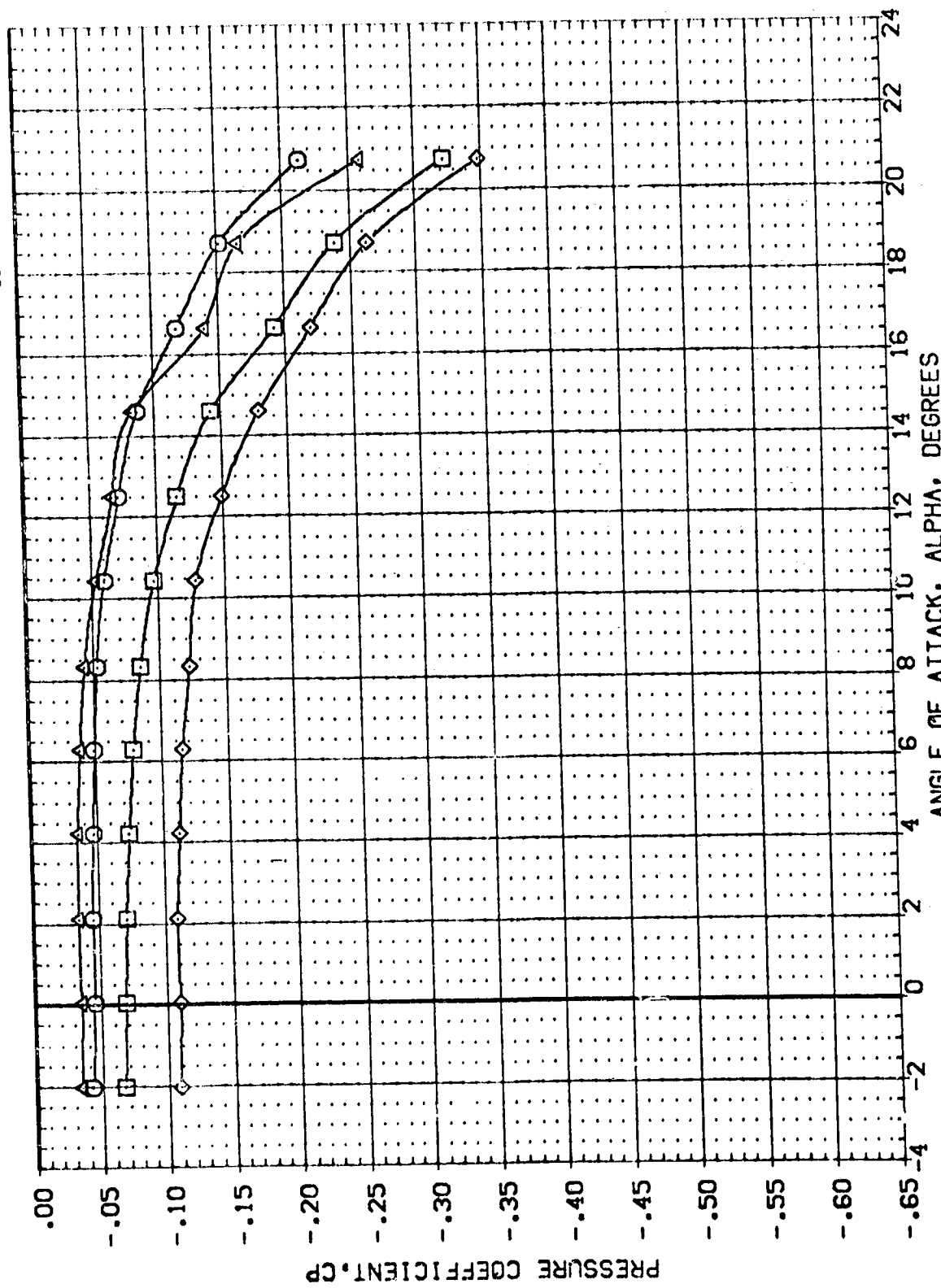
REFERENCE INFORMATION
 SREF 173.1312
 LREF 75.5100
 BREF 20.9086
 XREF 16.8533
 YREF .0000
 ZREF .0000
 SCALE .0188



EFFECT OF MACH NUMBER, LAMDAF = 78 DEG, (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

SYMBOL	DATA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	MACH .349	SREF 175.7376
□	CPB2	BETA 53.200	LREF 25.5100
◇	CPC1	LAMDAF 1.000	BREF 19.7156
△	CPC2	EOFLAP .000	XMREF 16.8633
		ELEVTR .000	YMREF .0000
		RUDFLR .000	ZMREF .0000
			SCALE .0188

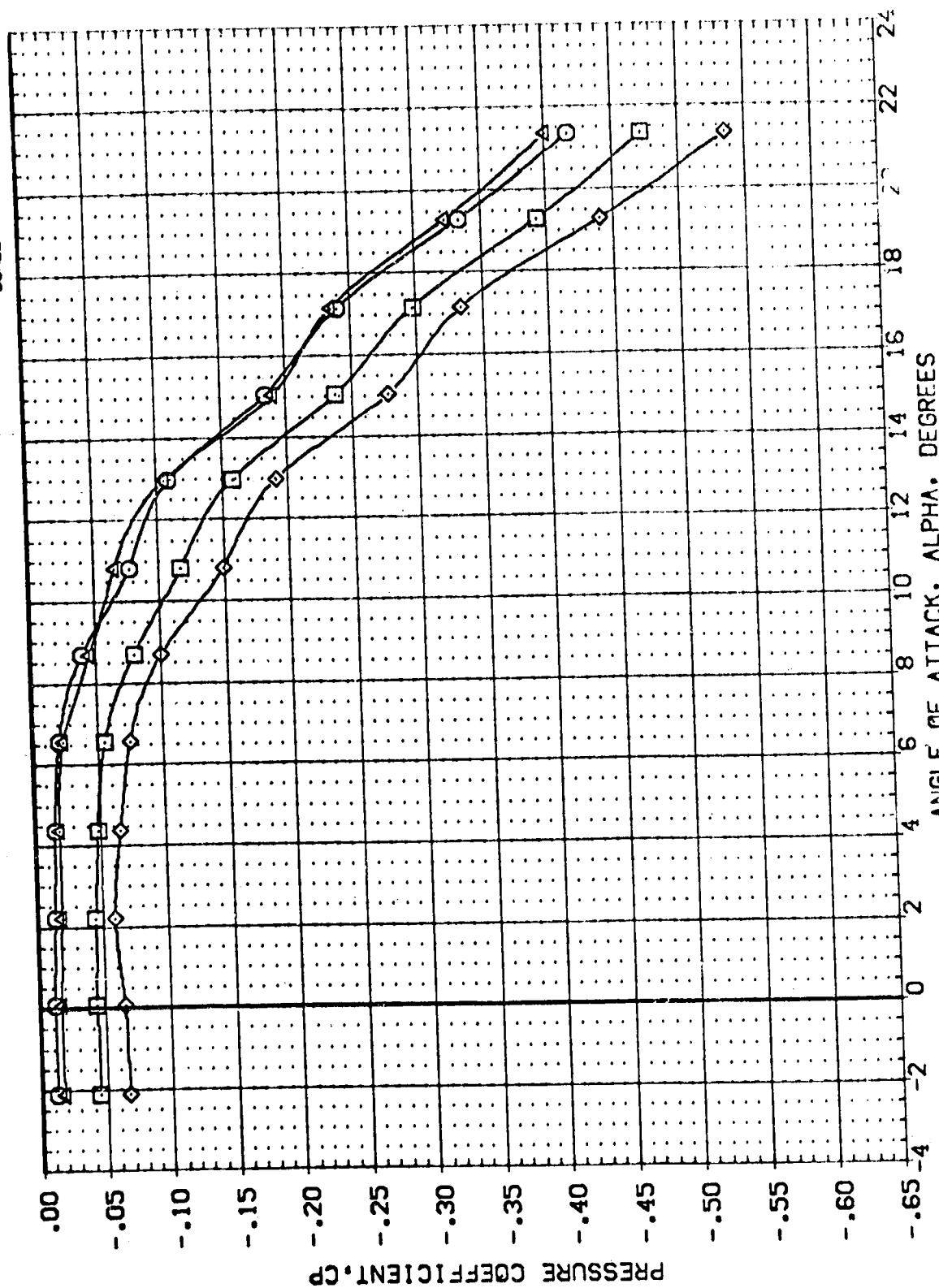


BASE PRESSURES FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

SYMBOL	DATA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	MACH .800	SREF 175.7376
□	CPB2	BETA .000	LREF 25.5100
△	CPC1	LANDAF 53.200	BREF 19.7156
◇	CPC2	BOFLAP .000	XPRP 15.8633
		ELEVTR .000	YPRP .0000
		RUOFLR .000	ZPRP .0000
			SCALE .0188

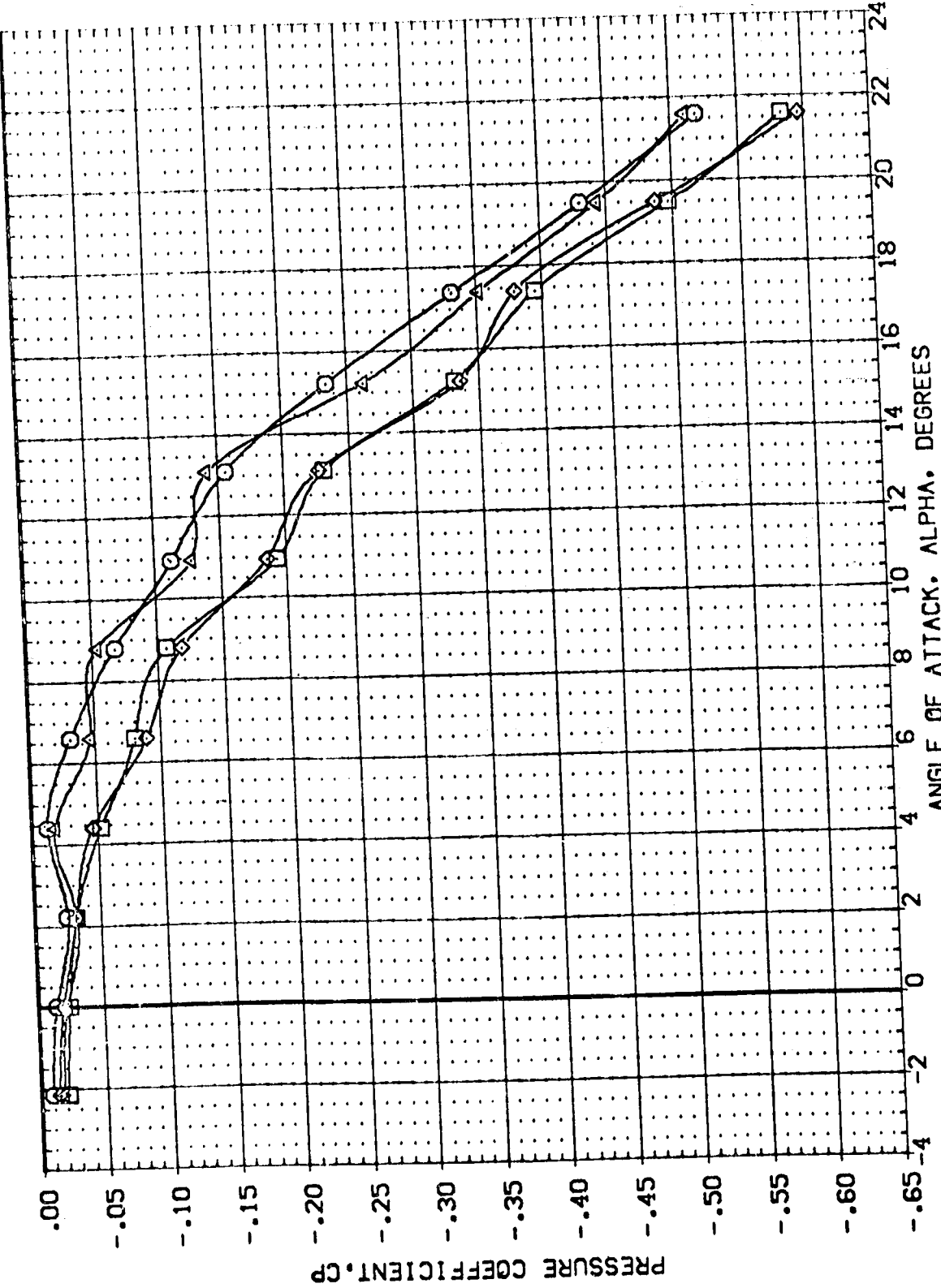


BASE PRESSURES FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 LQ-100 ORBITER(SHIPS) (B-W1VFB) (RP5P01)

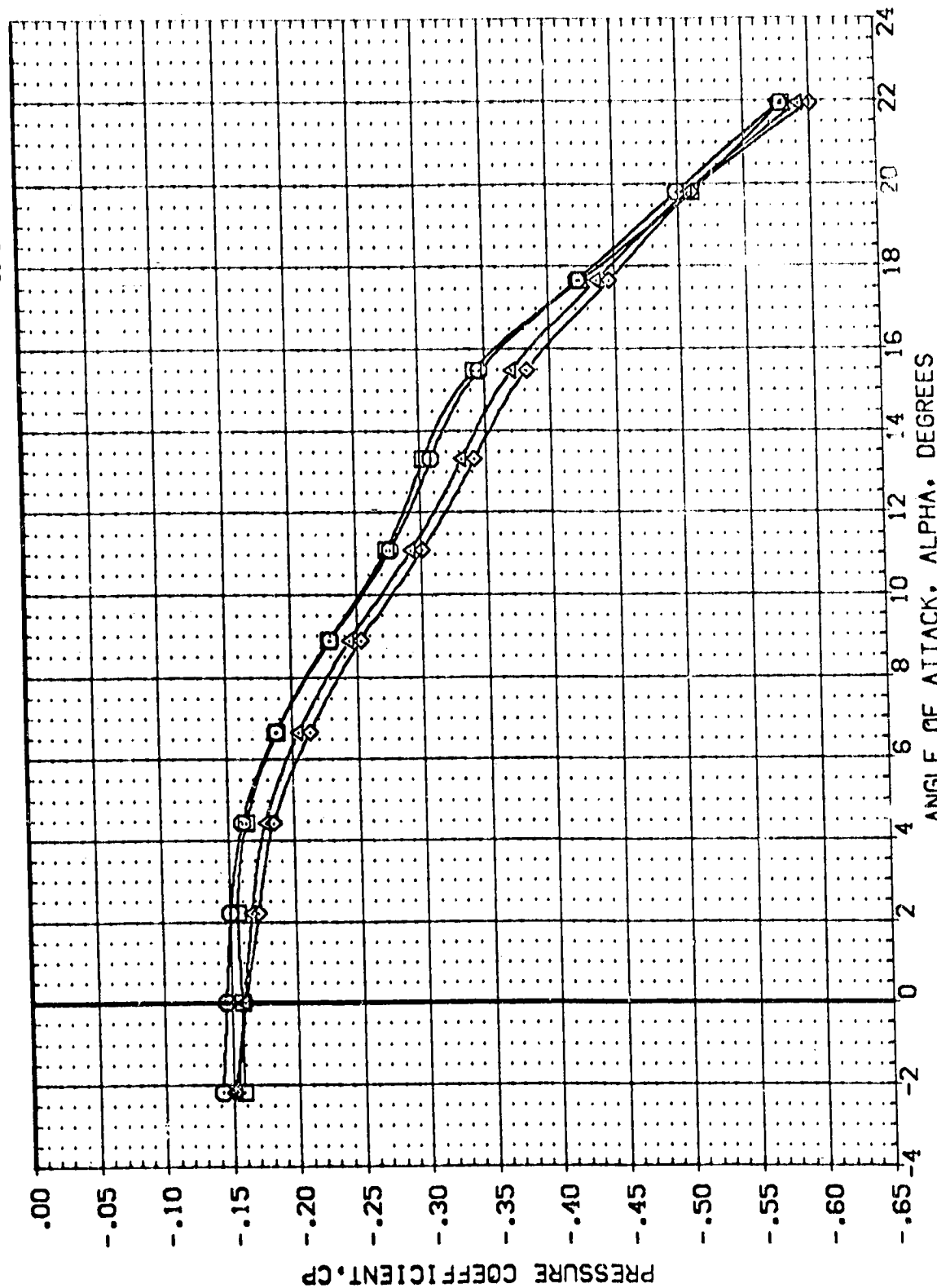
SYMBOL		DATA		PARAMETRIC VALUES				REFERENCE INFORMATION			
○	CPB1	MACH	.900	BETA	.000	SREF	175.7376	SO IN	175.7376	INCHES	175.7376
□	CPB2	WINGNO	1.000	LAMDAF	53.200	LRREF	25.5100	INCHES	25.5100	INCHES	25.5100
◇	CPC1	ELEVTR	.000	BOFLAP	.000	BRREF	19.7156	INCHES	19.7156	INCHES	19.7156
△	CPC2	RUDFLR	.000			XRPP	16.8633	INCHES	16.8633	INCHES	16.8633
						YRPP	.0000	INCHES	.0000	INCHES	.0000
						ZRPP	.0000	INCHES	.0000	INCHES	.0000
						SCALE	.0158	SCALE	.0158	SCALE	.0158



BASE PRESSURES FOR LQ-100 WING (B-W1 V FB)

REFERENCE INFORMATION	
SREF	175.7376 SO.IN.
LREF	25.5100 INCHES
BREF	19.7156 INCHES
XREF	16.8633 INCHES
YREF	.0000 INCHES
ZREF	.0000 INCHES
SCALE	.0188 SCALE

SYMBOL	DATA	PARAMETRIC VALUES
○	CPB1	.980 BETA
□	CPB2	1.000 LAMDAF
◇	CPC1	.000 BOFLAP
△	CPC2	.000
	RUOFLR	53.20C



BASE PRESSURES FOR LQ-100 WING (B W1 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (RP5P01)

SYMBOL
○
□
◇
△

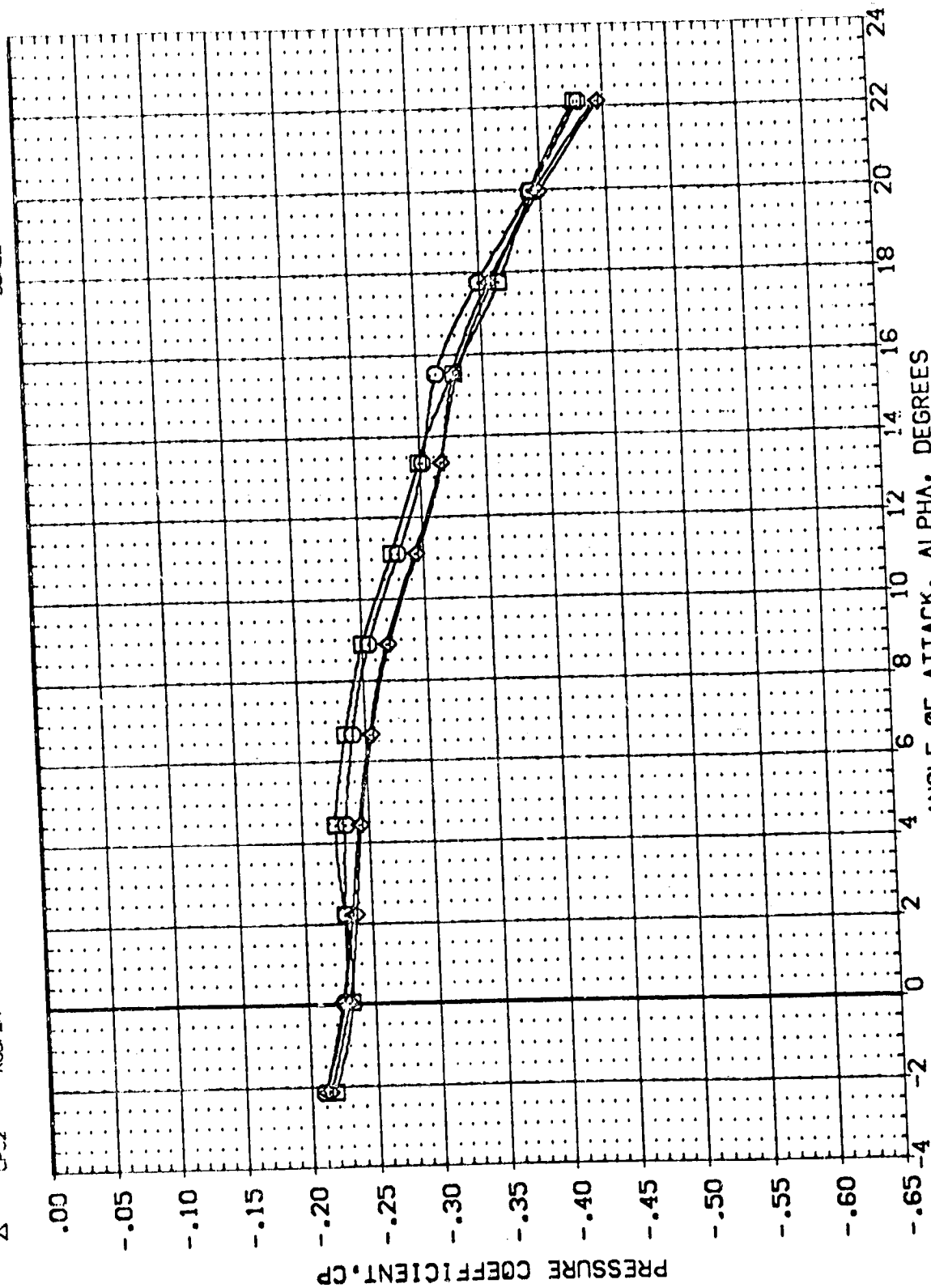
DATA
CPB1
CPB2
CPC1
CPC2

MACH
VINGND
ELEVTR
RUJFLR

PARAMETRIC VALUES

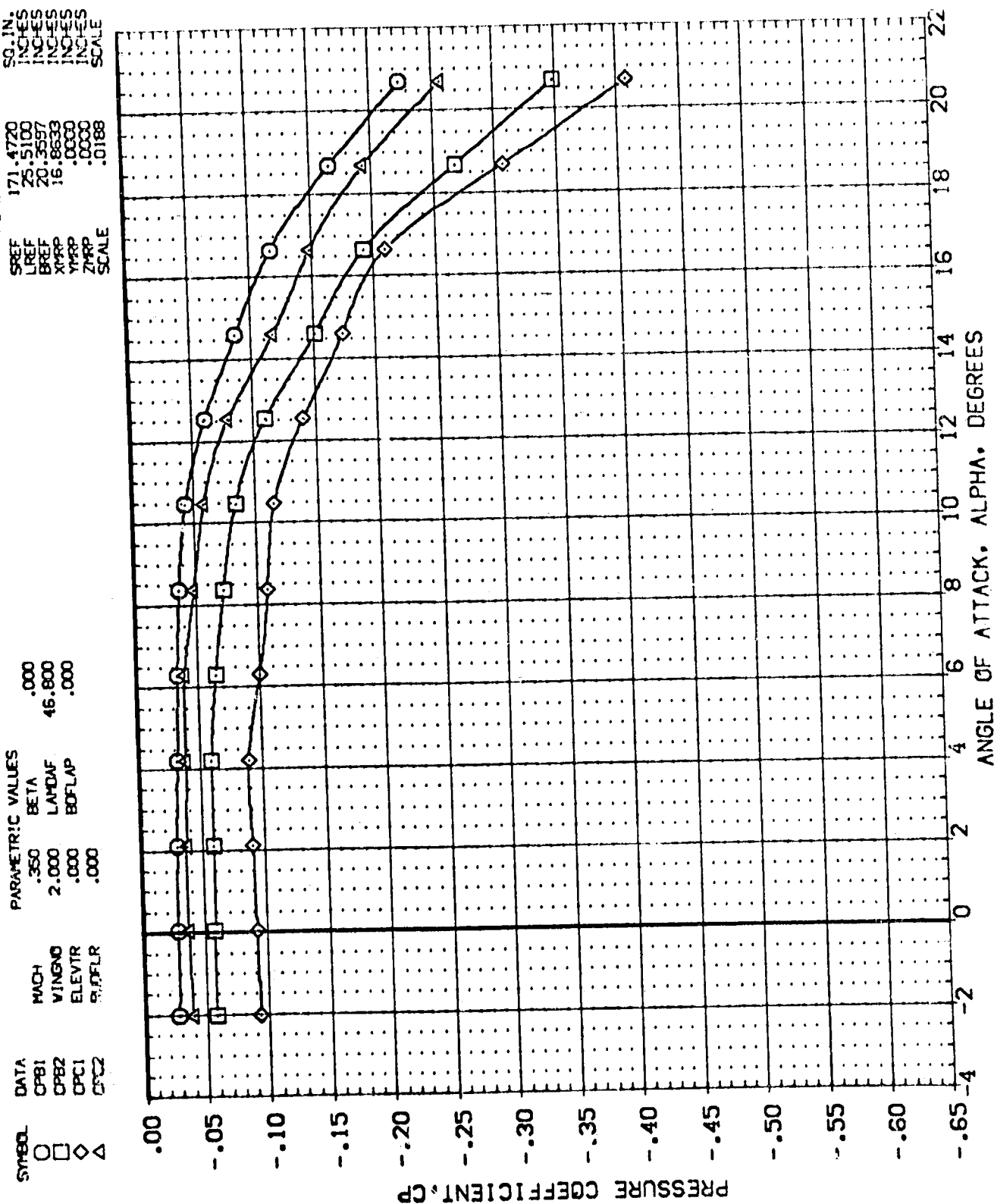
1.200 BETA .000
1.000 LAYDAF 53.200
.000 FDFLAP .000
.000 .000

REFERENCE INFORMATION
SREF 175.7376
LREF 25.5100
BREF 19.7156
XMRP 15.8633
YMRP .0000
ZMRP .0000
SCALE .0188



BASE PRESSURES FOR L0-100 WING (B W1 V FB)

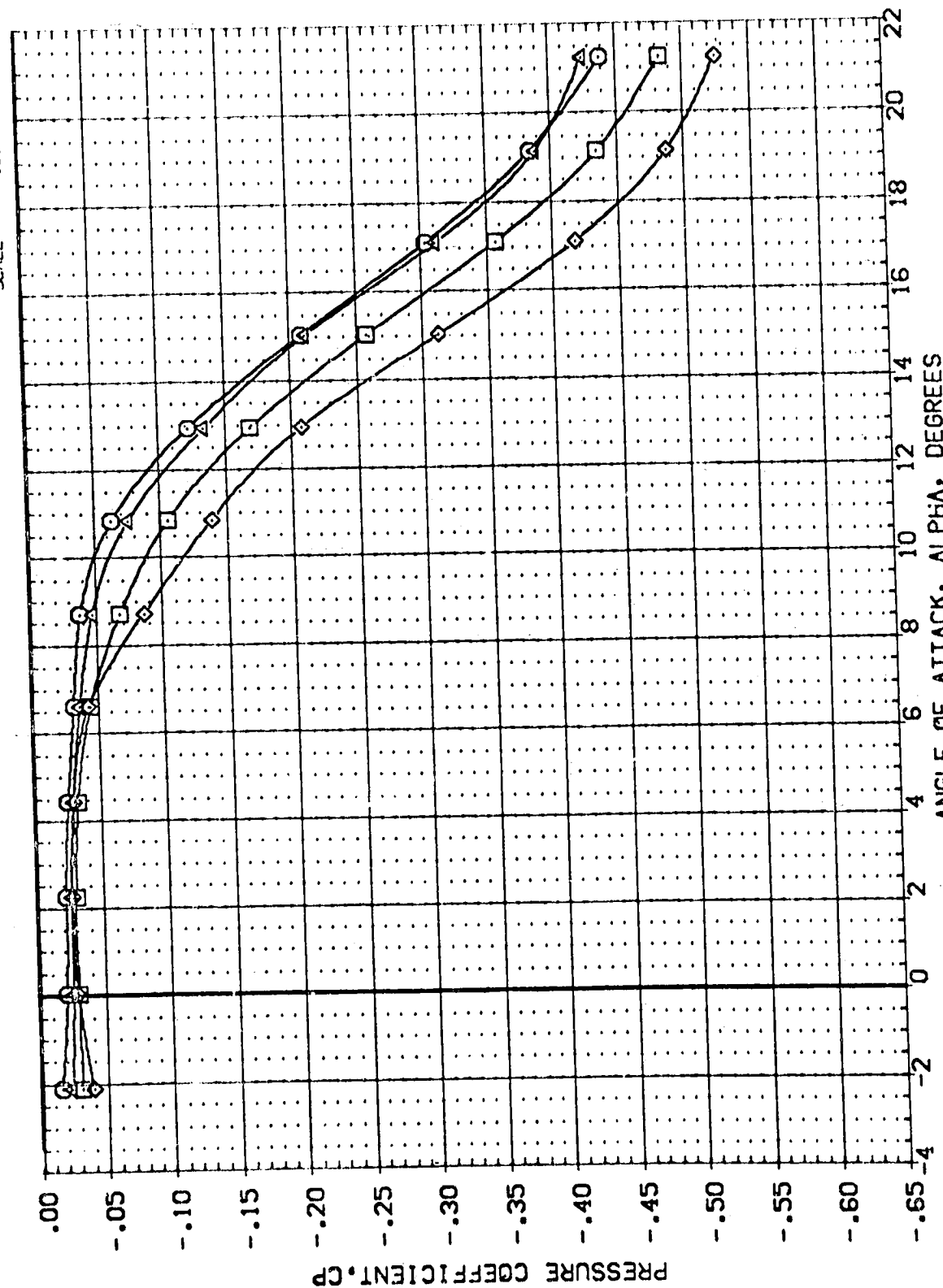
REFERENCE INFORMATION	
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LREF	25.5100 INCHES
BREF	20.3597 INCHES
XMRP	16.8633 INCHES
YMRP	.0000 INCHES
ZMRP	.0000 INCHES
SCALE	.0188 SCALE



BASE PRESSURES FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	.800	BETA	SREF 171.4720
□	CPB2	2.000	LAMDAF	LREF 25.5100
◇	CPC1	.000	BOFLAP	BREF 20.3557
△	CPC2	.000	BOFLAP	WMRP 15.8833
				WMRP .0000
				ZMRP .0000
				SCALE .0188



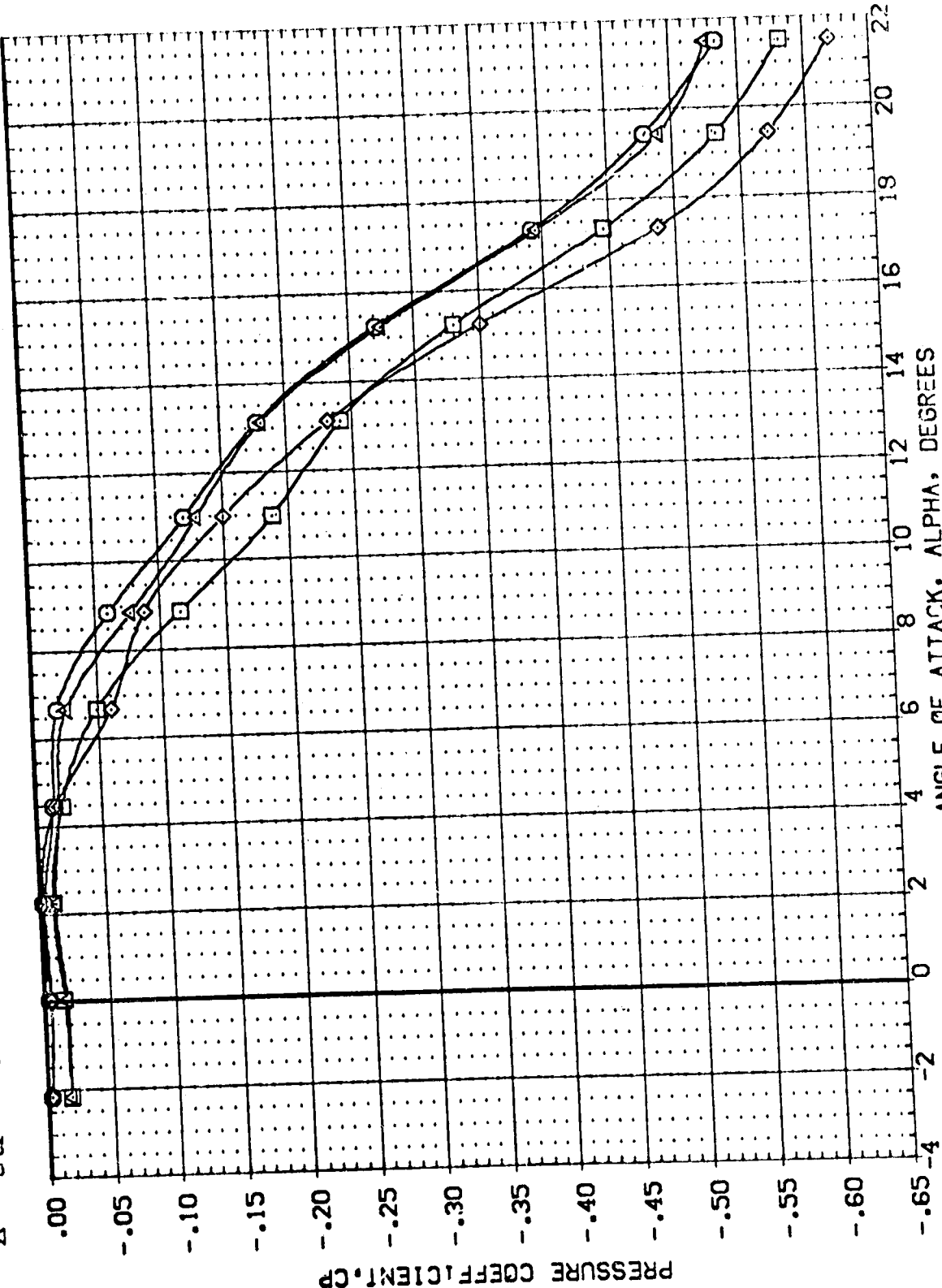
BASE PRESSURES FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REF. IN.
○	CPB1	.899	BETA	171.4720
□	CPB2	2.000	LANDAF	25.5100
◇	CPC1	.000	BOFLAP	20.3597
△	CPC2	.000	BOFLAP	16.8633
				.0000
				.0000
				.0188
				SCALE

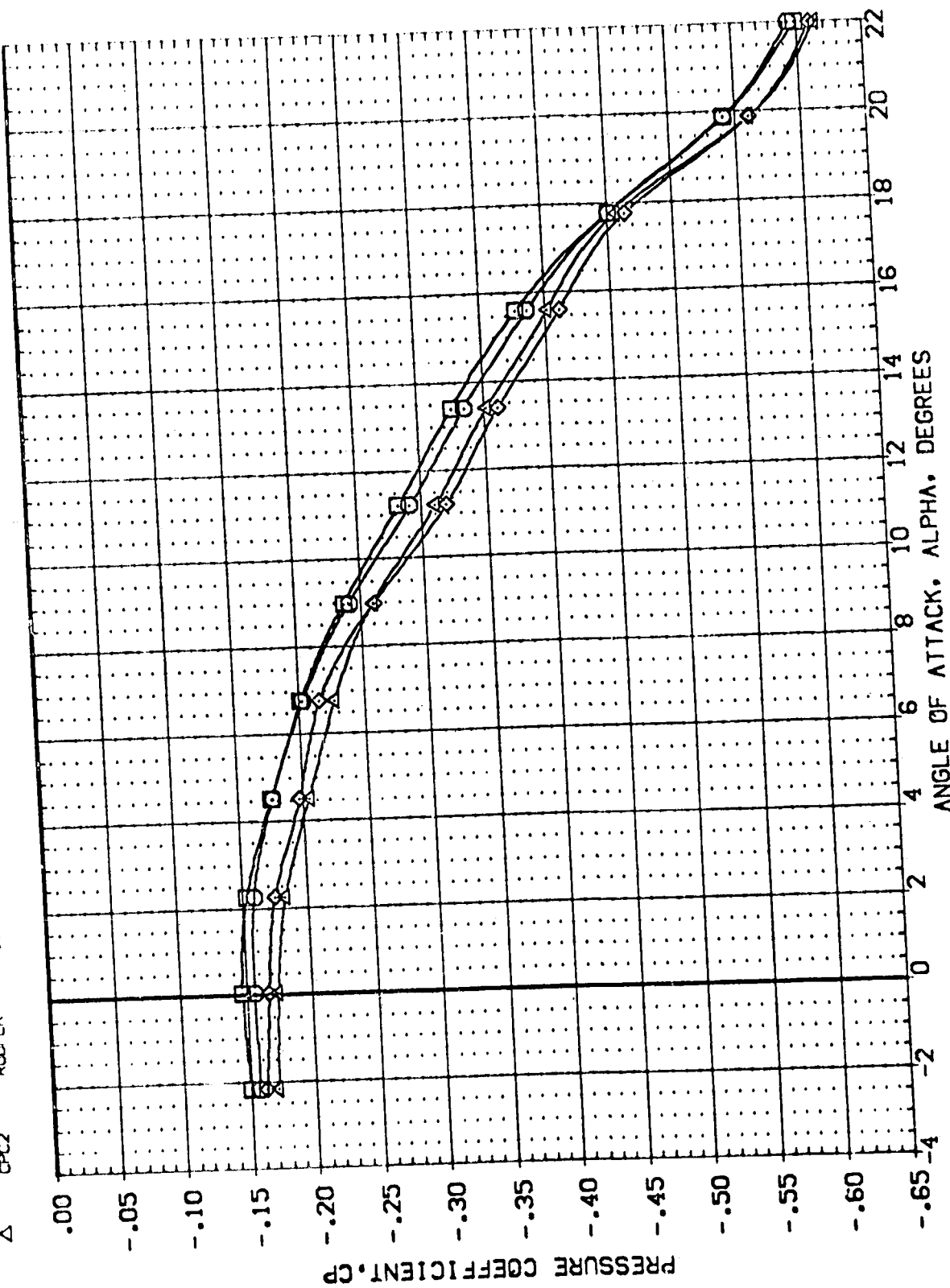
SYMBOL	DATA	MACH	PARAMETRIC VALUES	REF. IN.
○	CPB1	.899	BETA	171.4720
□	CPB2	2.000	LANDAF	25.5100
◇	CPC1	.000	BOFLAP	20.3597
△	CPC2	.000	BOFLAP	16.8633
				.0000
				.0000
				.0188
				SCALE



BASE PRESSURES FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5P07)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	VIN3ND	.980 BETA	SREF 171.4720
□	CPB2	ELEVTR	2.000 LAMDAF	LREF 25.5100
◇	CPC1	RUDEFLR	.000 BOFLAP	XMRP 20.3557
△	CPC2		.000	YMRP 16.8633
			.000	ZMRP .0000
			.000	SCALE .0188
				SC.IN. INCHES

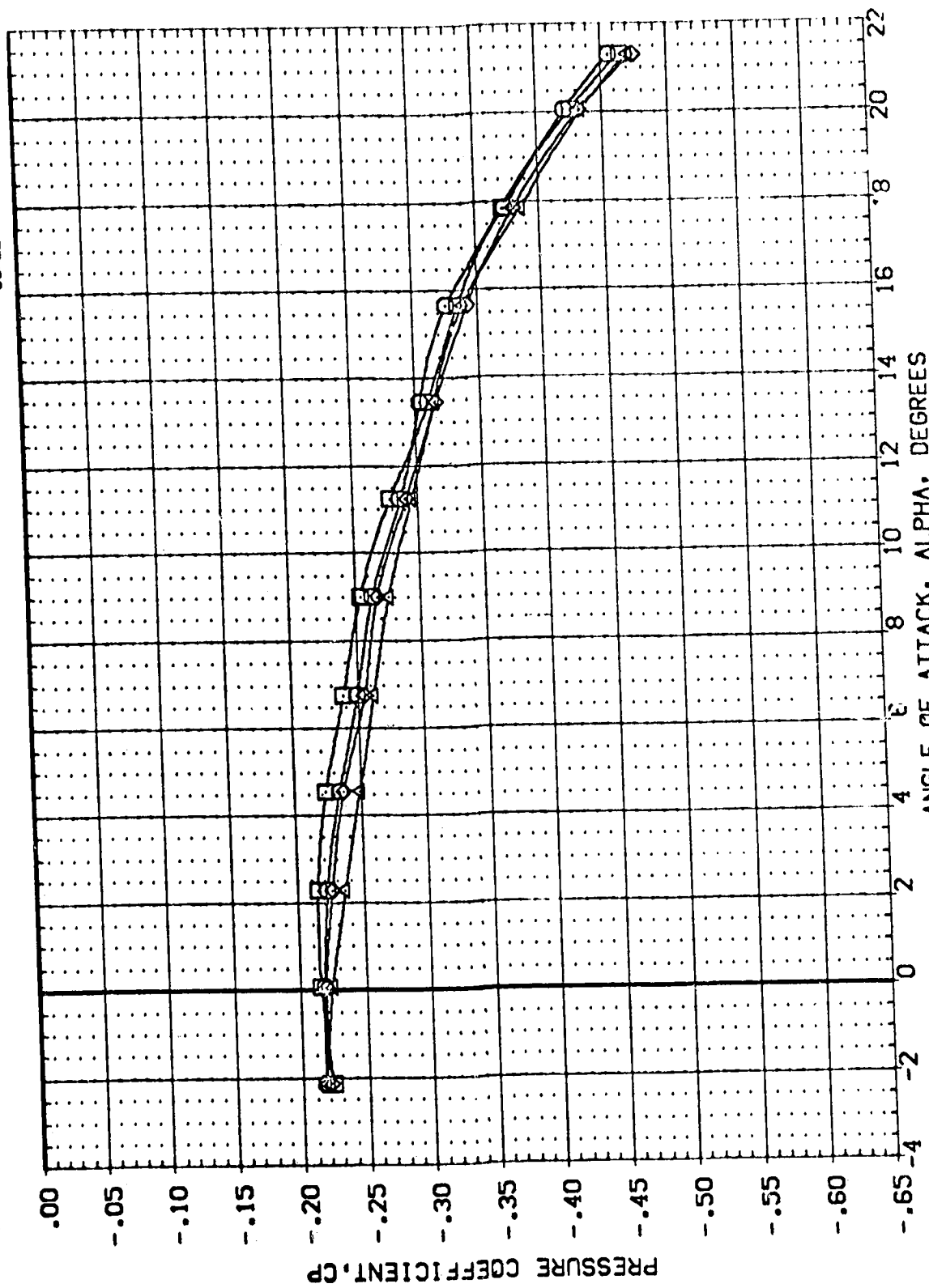


BASE PRESSURES FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 CRBITER(SHIPS) (BW2VFB) (RP5P07)

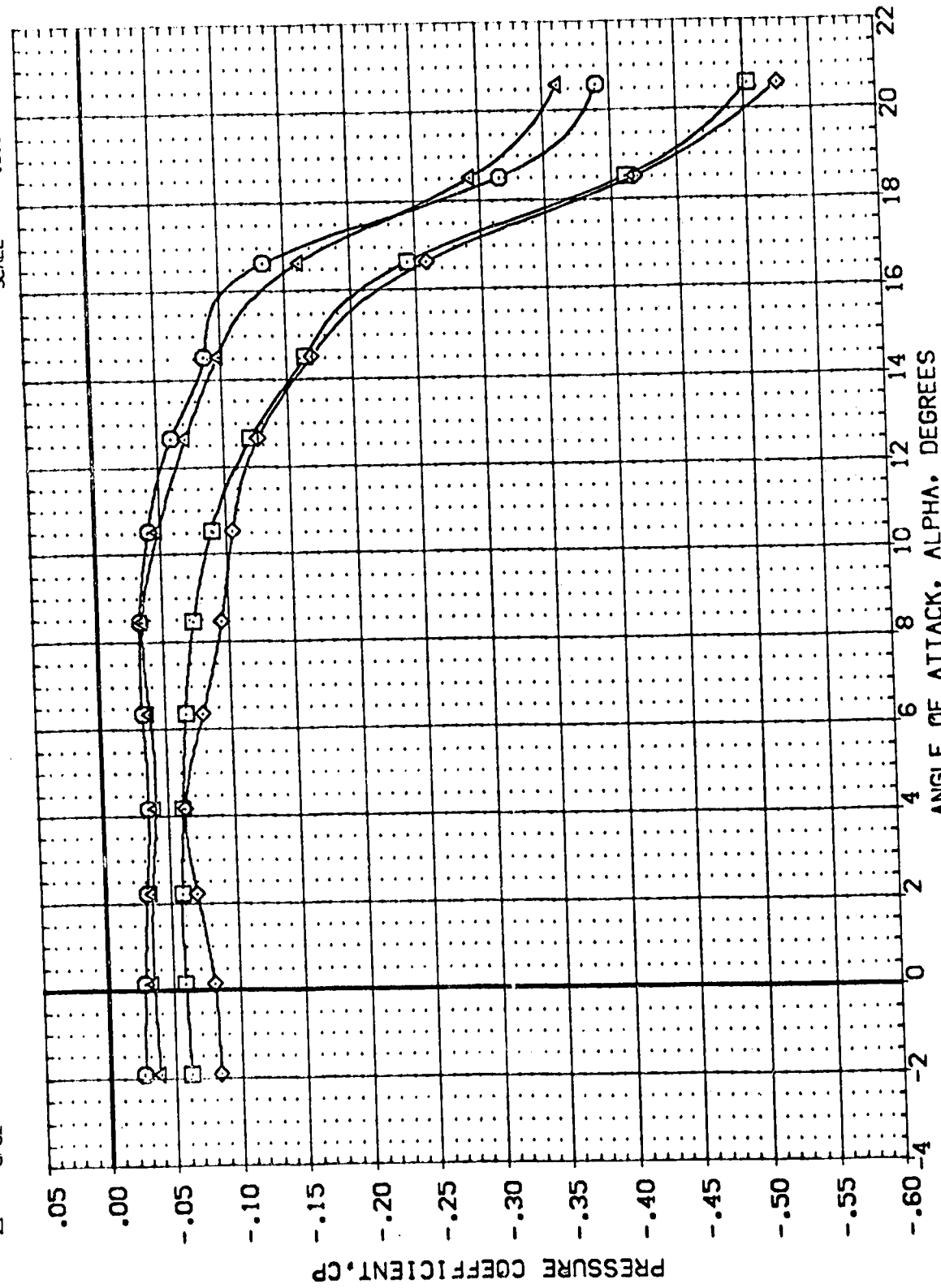
SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	1.199	BETA .000	SREF 171.4720
□	CPB2	2.000	LAMDAF 46.800	LREF 25.5100
◇	CPC1	.000	BOFLAP .000	BREF 20.3597
△	CPC2	.000	BOFLAP .000	XMRP 16.8633
				YMRP .0000
				ZMRP .0000
				SCALE .0168



BASE PRESSURES FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5P16)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	.349	BETA	SREF 173.1312
□	CPB2	3.000	LANDAF	LREF 25.5100
◇	CPC1	.000	BCFLAP	BREF 20.5056
△	CPC2	.000	BCFLAP	XMRP 16.8633
				YMRP .0000
				ZMRP .0000
				SCALE .0188



BASIC PRESSURES FOR MSC C49 WING (B W3 V FB)



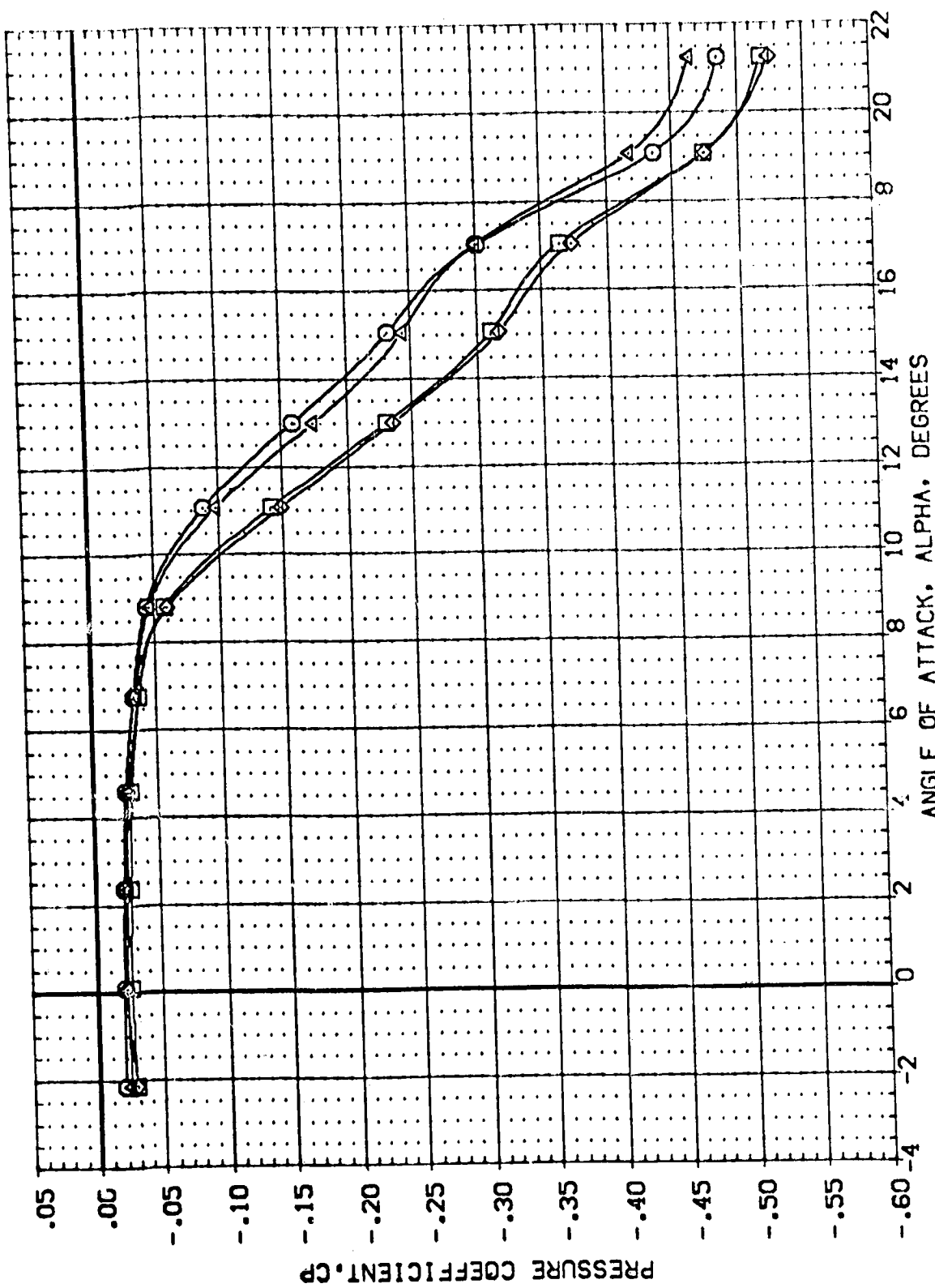
LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (RP5P16)

SYMBOL
 ○
 □
 ◇
 △

DATA
 CPB1
 CPB2
 CPC1
 CPC2

PARAMETRIC VALUES
 MACH .798
 VINGND 3.000
 ELEVTR .000
 RUOFUR .000
 BETA .000
 LAYDAF 35.000
 BOFLAP .300

REFERENCE INFORMATION
 SREF 173.1312
 LREF 25.5100
 BREF 20.9096
 YPRP 16.8633
 YPRP .0000
 ZPRP .0000
 SCALE .0188



BASE PRESSURES FOR MSC 049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB)(RP5P16)

SYMBOL
○
□
◇
△

DATA
CPB1
CPB2
CPC1
CPC2

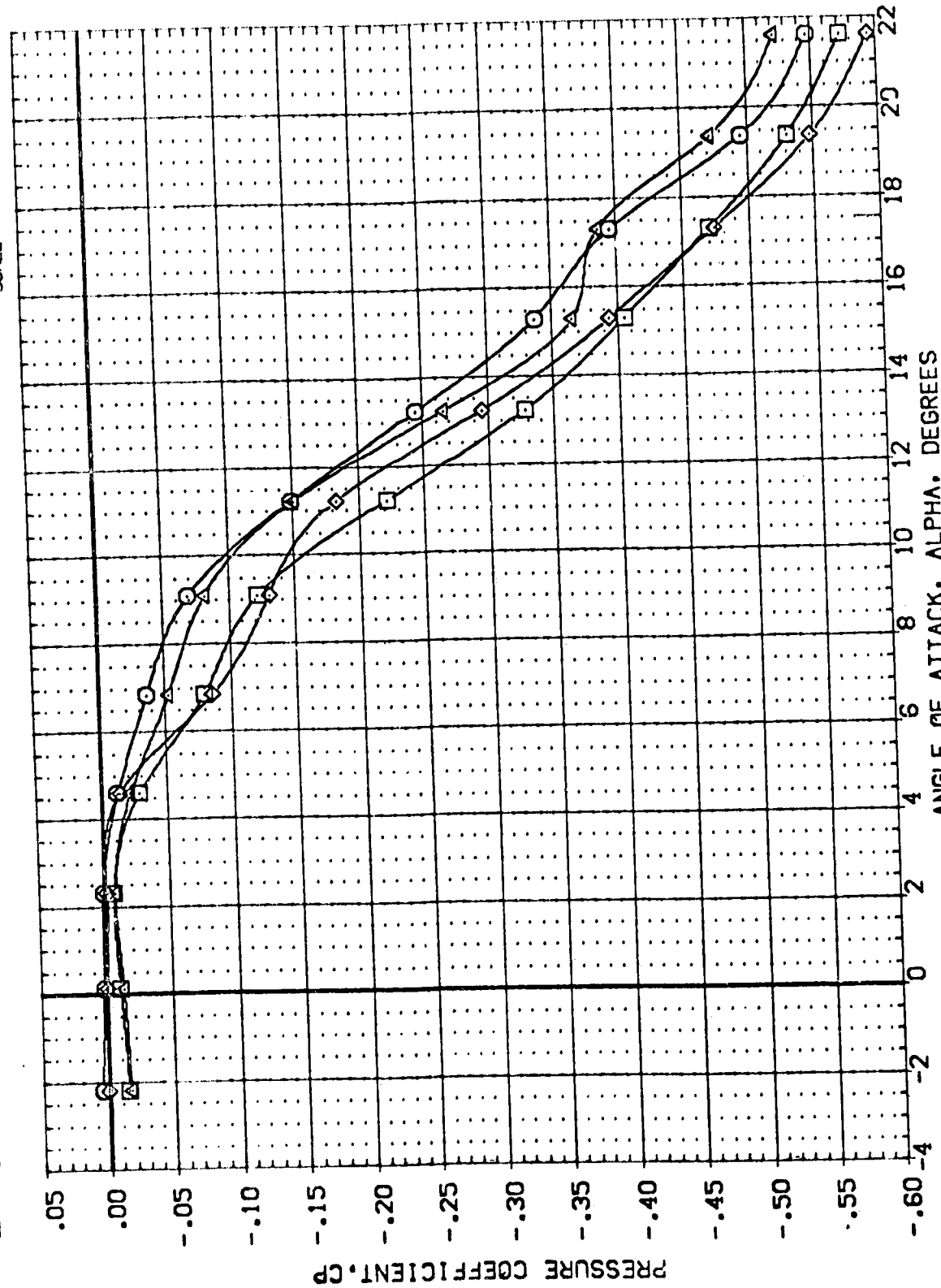
MACH
WINGNO
ELEVTR
RJDFLR

PARAMETRIC VALUES
BETA
LAMDAR
BOFLAP

.859
3.000
.000
.000

.000
35.000
.000

REFERENCE INFORMATION
SREF 173.1312 SQ. IN.
LREF 25.5100 INCHES
BREF 20.8096 INCHES
XMRP 16.8633 INCHES
YMRP .0000 INCHES
ZMRP .0000 INCHES
SCALE .0188



BASE PRESSURES FOR MSC 049 WING (B W3 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB)(RP5P16)

SYMBOL
○
□
◇
△

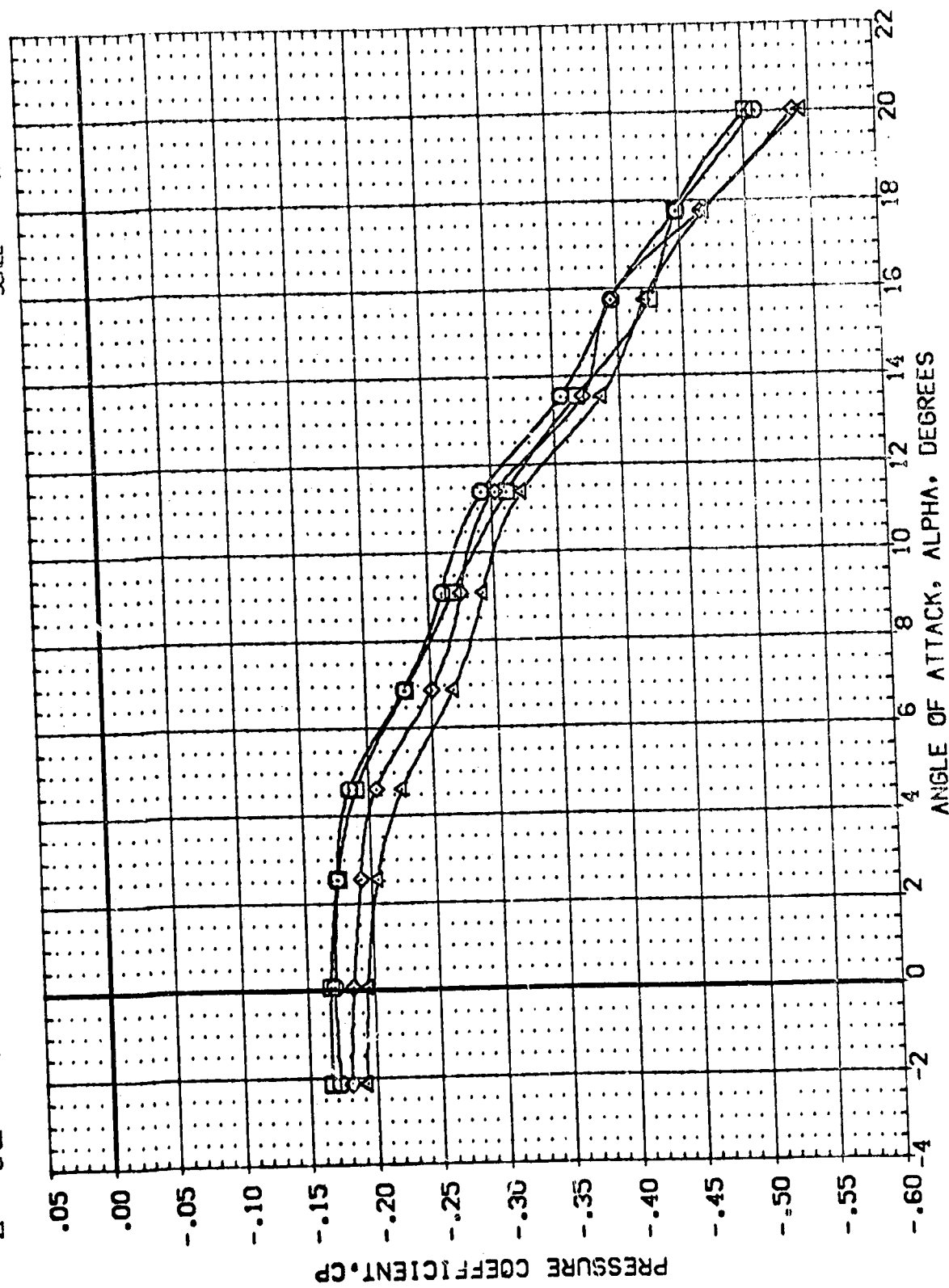
DATA
CPB1
CPB2
CPC1
CPC2

MACH
VINGW
ELEVTR
RUOFUR

PARAMETRIC VALUES

.980 BETA
3.000 LANDAF
.000 BOFLAP
.000

REFERENCE INFORMATION
SREF 173.1312
LREF 25.5100
BREF 20.9036
XMRP 16.8633
YMRP .0000
ZMRP .0000
SCALE .0188



BASE PRESSURES FOR MSC 049 WING (B W3 V FB)

LARC 8-FT TPT S44 LO-100 ORBITER(SHIPS) (BW3VFB) (R3P16)

SYMBOL
 ○ □ ◇ △

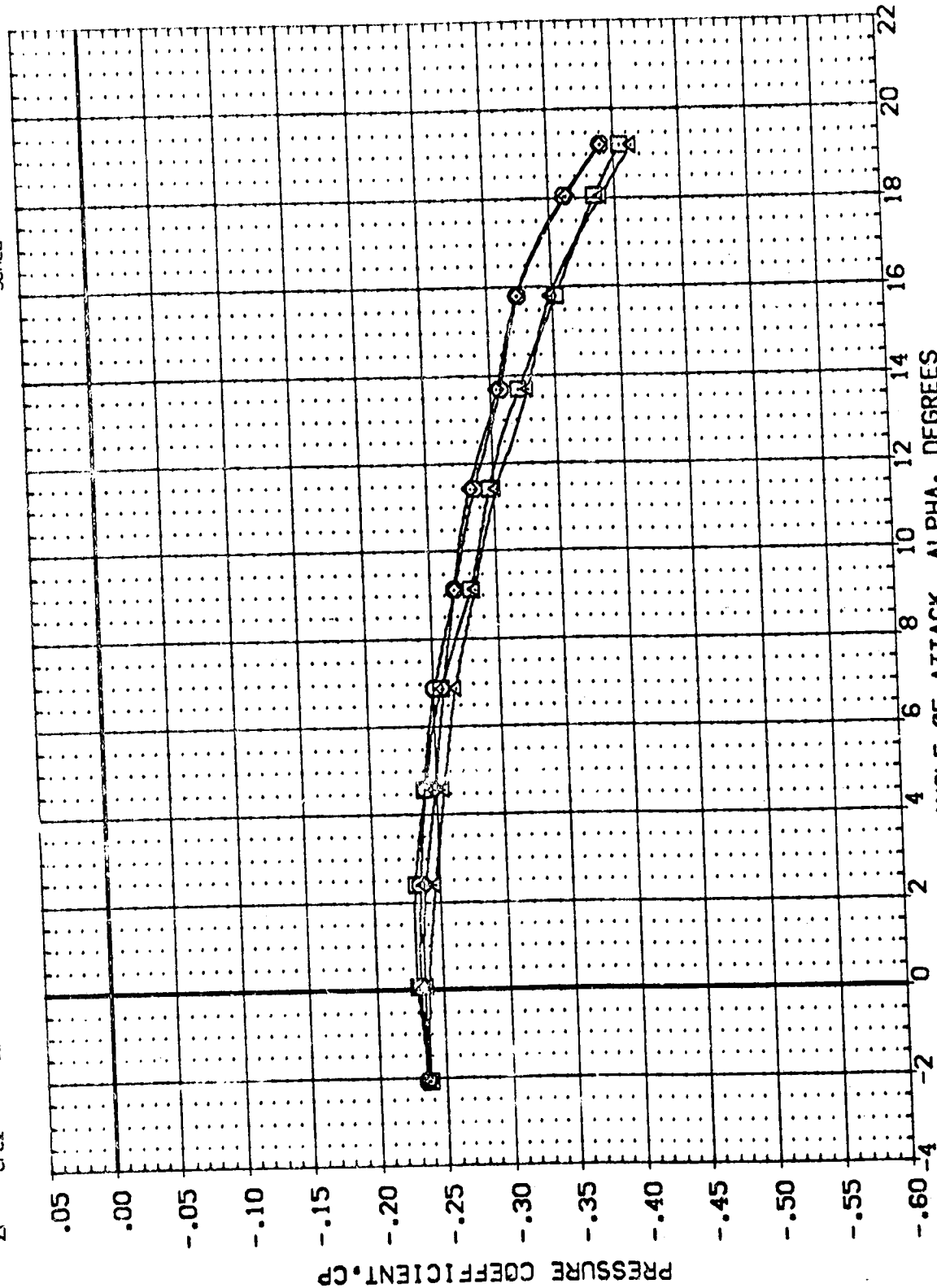
DATA
 CPB1
 CPB2
 CPC1
 CPC2

MACH
 VINGNO
 ELLIPT
 RUOTER

PARAMETRIC VALUES
 1.200 BETA
 3.000 LAMDAF
 .000 BOFLAP
 .000

.000
 .35.000
 .000

REFERENCE INFORMATION
 SREF 172.1312 SG-IN
 LREF 25.5150 INCHES
 BREF 20.9055 INCHES
 XMRP 16.8633 INCHES
 YMRP .0000 INCHES
 ZMRP .0000 INCHES
 SCALE .0183



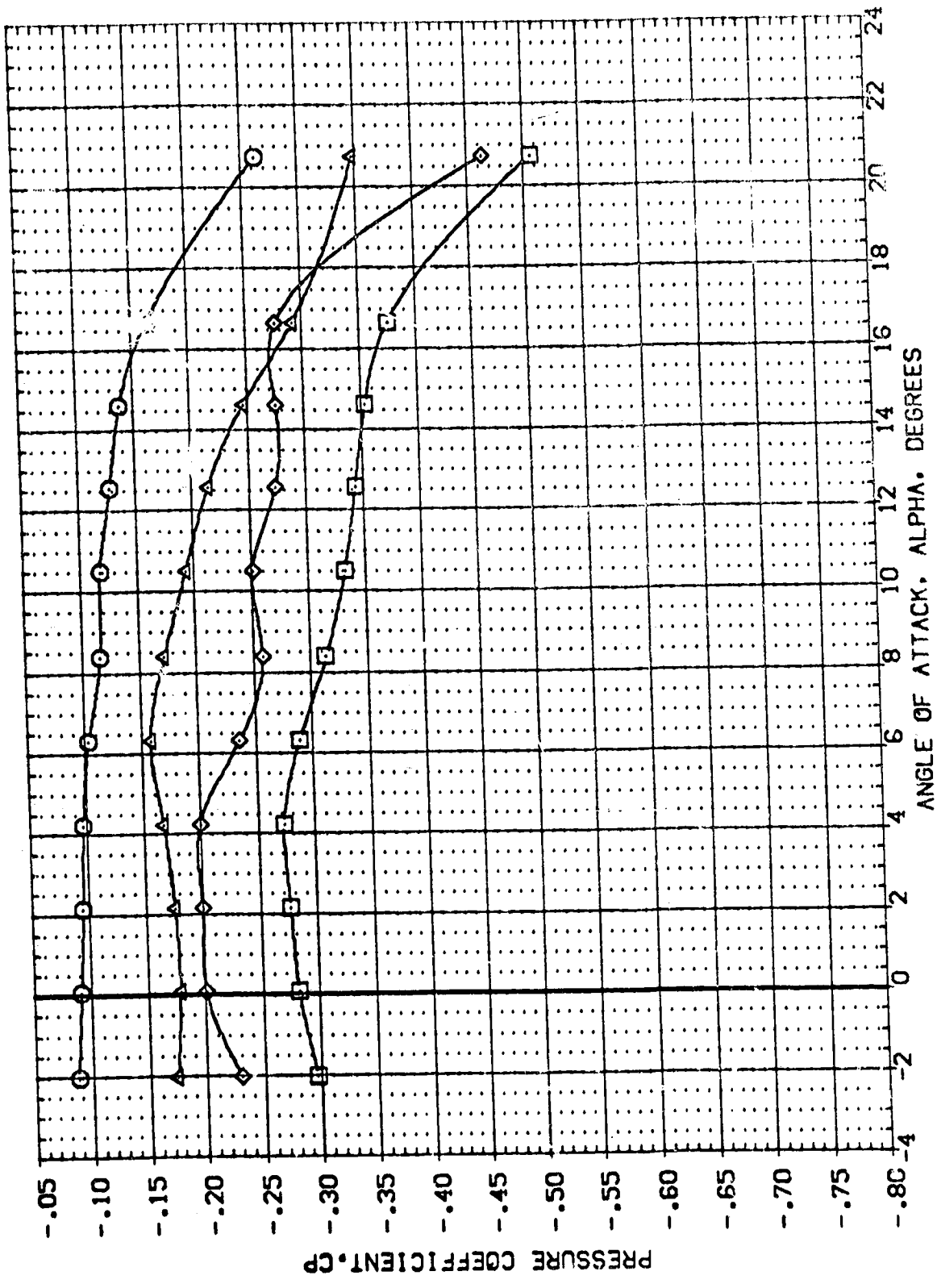
BASE PRESSURES FOR MSC 049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)(RPSP14)

SYMBOL	DATA	MACH	PARAMETRIC VALUES
○	CPB1	.349	BETA .000
□	CPB2	2.000	LAMDAF 46.800
◇	CPC1	.000	BOFLAP .000
△	CPC2	10.000	RUDFLR 10.000

REFERENCE INFORMATION	
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LREF	25.5100
BREF	20.3597
XMRP	16.8633
YMRP	.0000
ZMRP	.0000
SCALE	.0188
SO.IN.	INCHES
INCHES	INCHES
INCHES	INCHES
INCHES	INCHES
INCHES	INCHES
INCHES	INCHES
SCALE	SCALE



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RPSP14)

SYMBOL

DATA

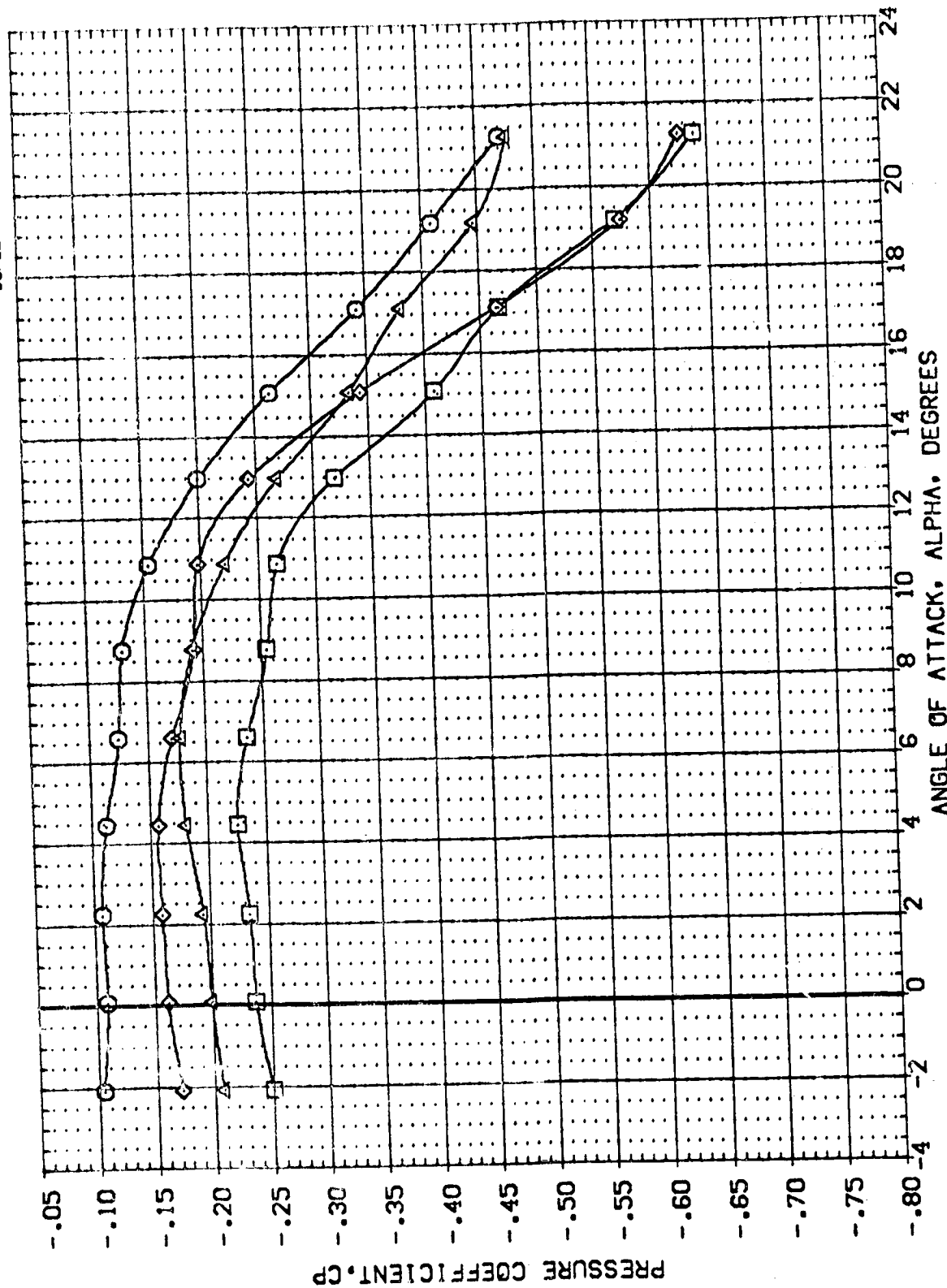
MACH
WINGAO
ELEVIR
RUOFLR

PARAMETRIC VALUES
BETA
LAPDAF
BOFLAP

.000
46.800
.000

REFERENCE INFORMATION
SREF
LREF
XREF
YREF
ZREF
SCALE

171.4720
25.5100
20.3537
15.8633
.0000
.0000
.0189

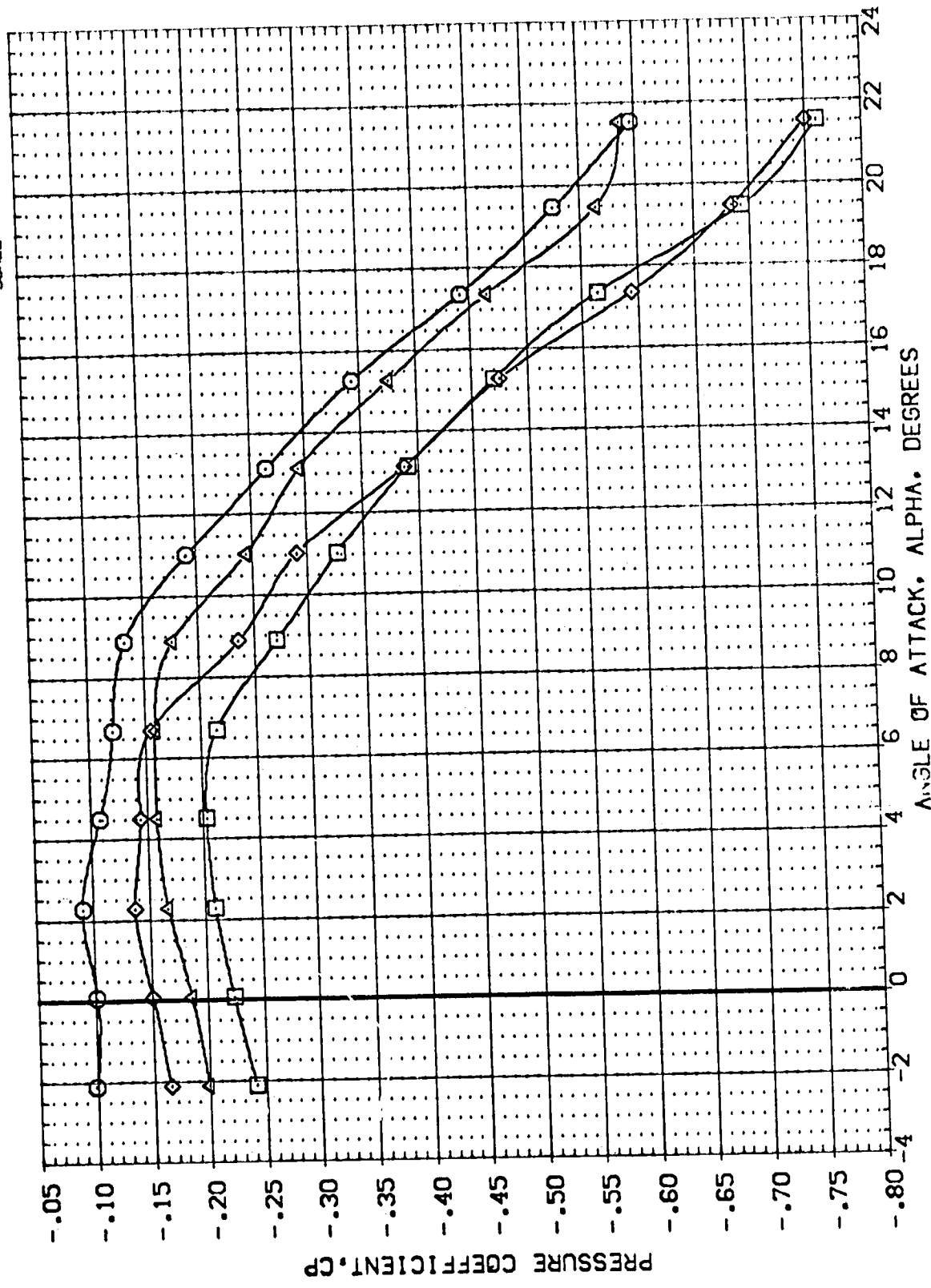


BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (RP5P14)

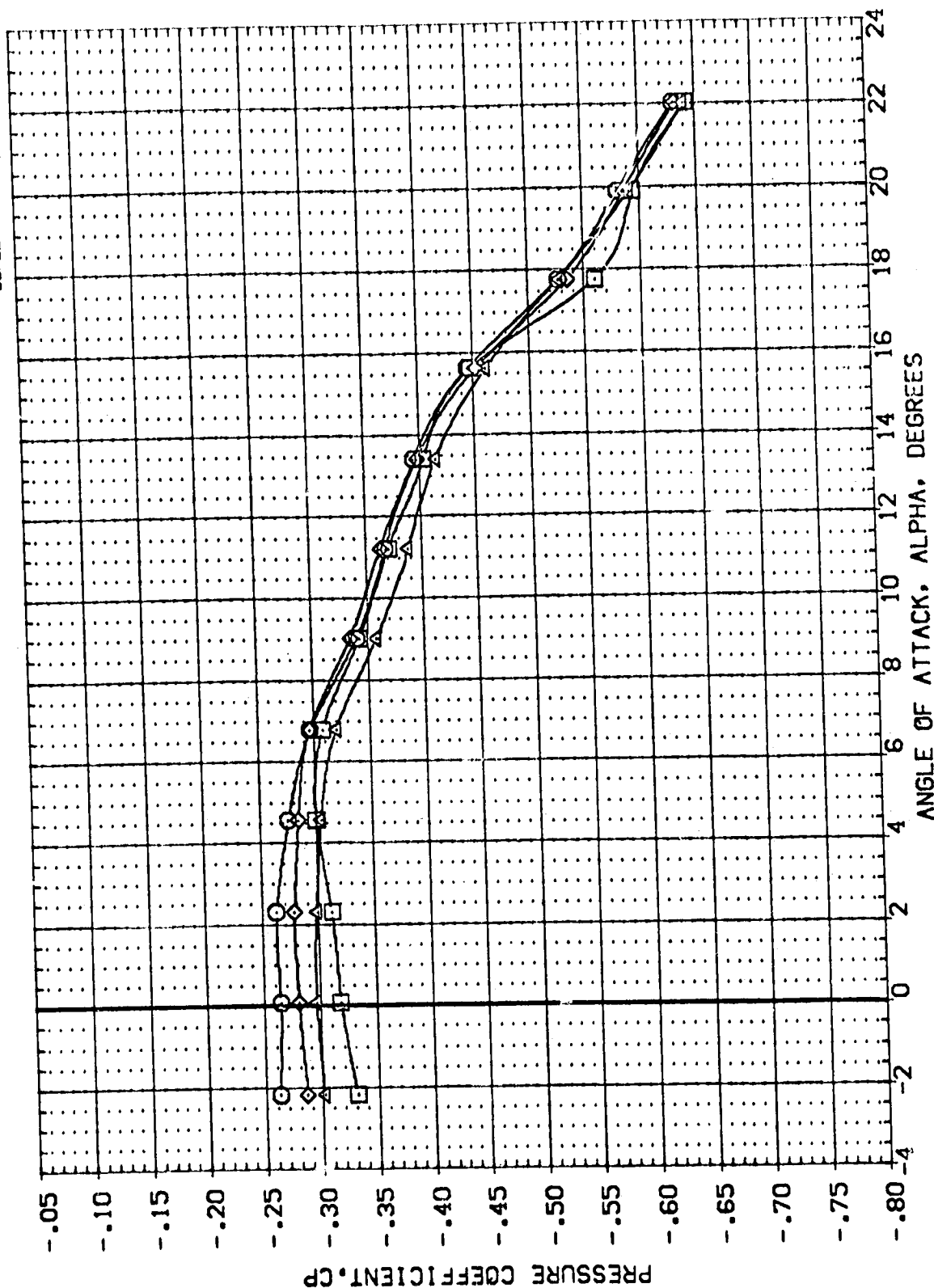
SYMBOL	DATA	PARAMETRIC VALUES				REFERENCE INFORMATION			
		MACH	BETA	LAYDAF	BOFLAP	SREF	LREF	SO. IN.	INCHES
○	CPB1	2.000	.899	.000	.000	171.4720	25.5100	25.5100	INCHES
□	CPB2	.000	2.000	46.800	.000	20.3597	16.8633	20.3597	INCHES
◇	CPC1	10.000	.000	.000	.000	.0000	.0000	.0000	INCHES
△	CPC2					.0188		.0188	SCALE



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RPSP14)

SYMBOL	DATA	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	CPB1	.979	BETA	171.4720
□	CPB2	2.000	LAMDAF	25.5100
◇	CPC1	.000	BOFLAP	20.3597
△	CPC2	10.000	BOFLAP	16.8633
				0000
				0000
				0000
				0188
				SCALE



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (RPSP14)

REFERENCE INFORMATION

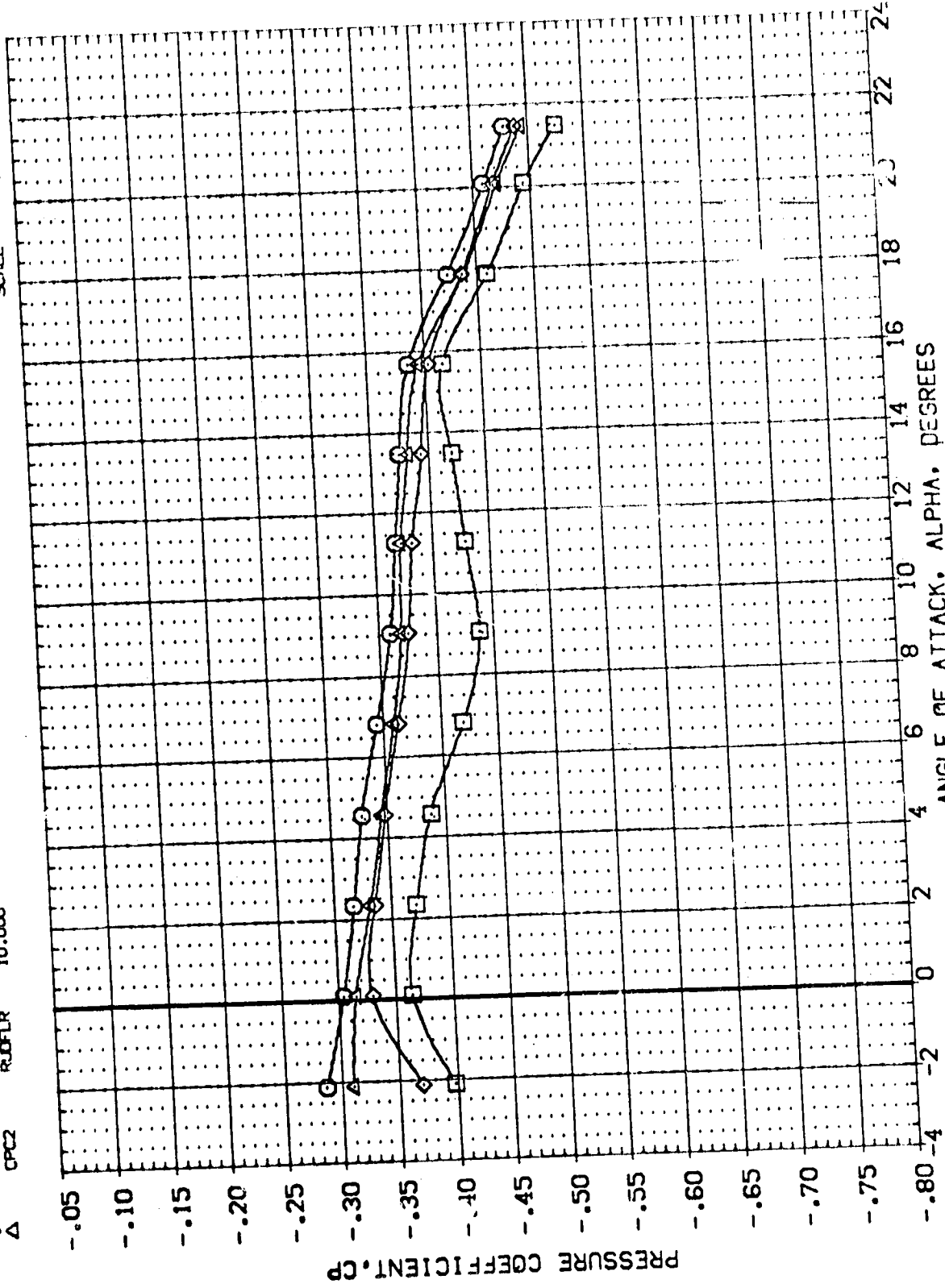
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LREF	25.5100	INCHES
BREF	20.3557	INCHES
XPRP	16.8633	INCHES
YPRP	.0000	INCHES
ZPRP	.0000	INCHES
SCALE	.0188	SCALE

PARAMETRIC VALUES

MACH	1.200	BETA	.000
WINGNO	2.000	LAMDAF	46.800
ELEVTR	.000	BOFLAP	.000
RJDFLR	10.000		

DATA

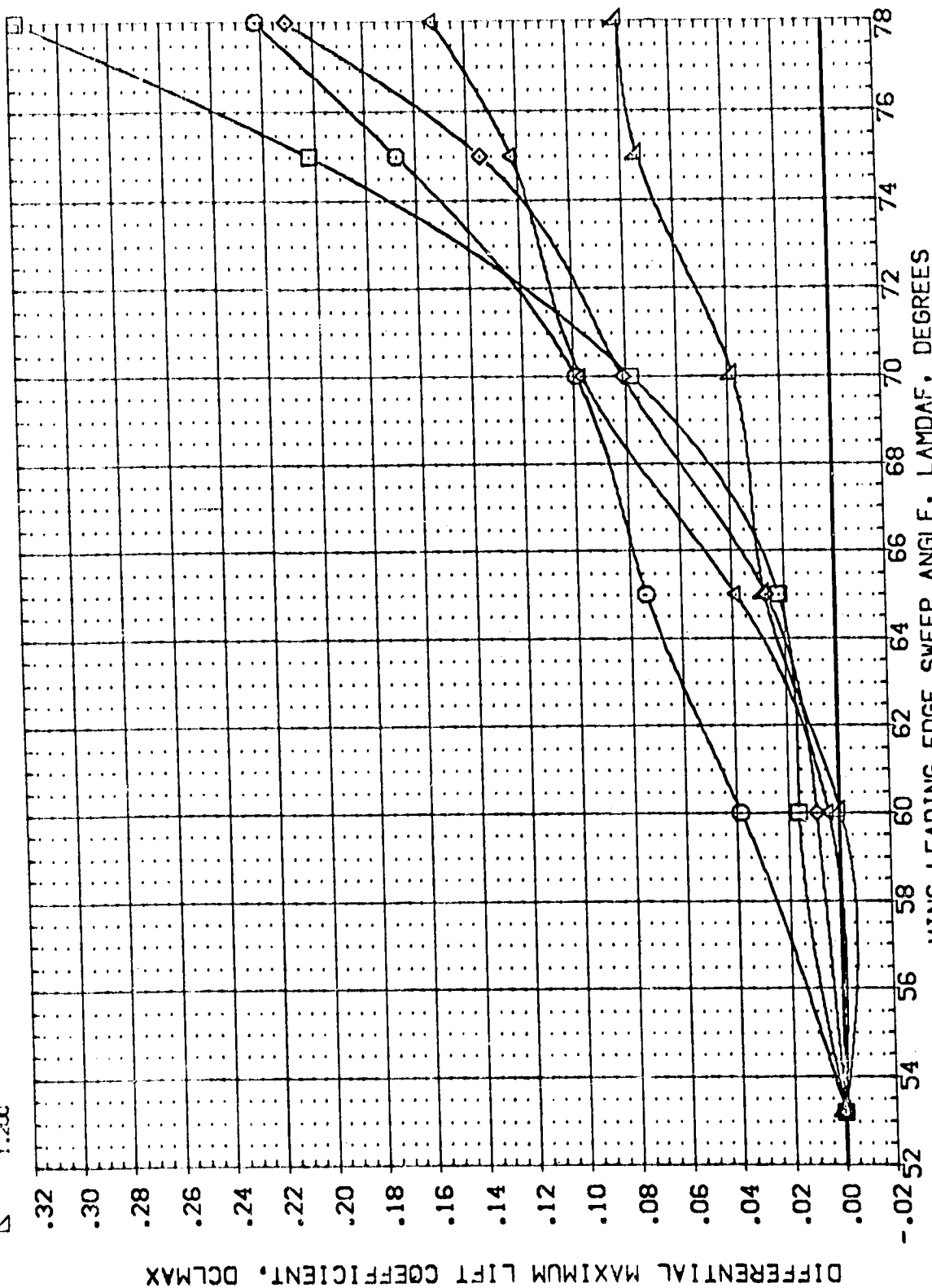
CPB1	
CPB2	
CPC1	
CPC2	



BASE PRESSURES WITH RUDDER FLARE (B W2 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB)(FP5001)

SYMBOL		PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
MACH		BETA		WING-0		SREF	
.350		.000	LAMDAF	53.200	FP5001	175.7375	50 IN
.800		.000	BOFLAP	.000	FP5003	25.5100	INCHES
.900		.000			FP5005	19.7156	INCHES
.980						16.8633	INCHES
1.200						.0000	INCHES
						.0000	INCHES
						.0188	SCALE

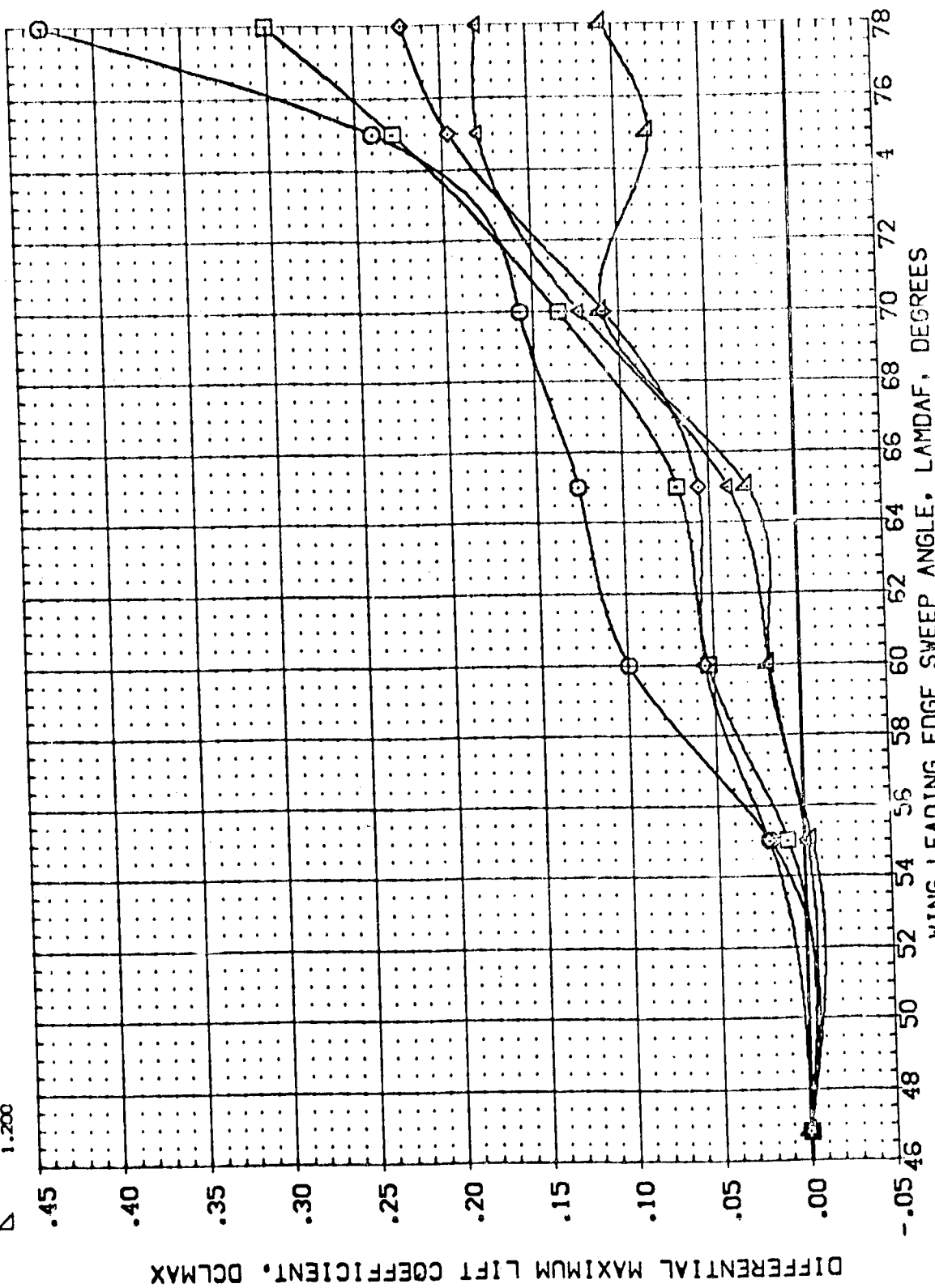


DELTA CLMAX FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (FP5007)

SYMBOL		MACH		BETA		ELEVTR		RUJFLR		PARAMETRIC VALUES		46.800		DATASET		VINGND		DATASET		VINGND		REFERENCE INFORMATION	
O		.350		.000		.000		.000		LAMDAP		.000		FP5007		2.000		FP5008		2.000		SREF	
□		.800		.000		.000		.000		BOFLAP		.000		FP5009		2.000		FP5010		2.000		LREF	
◇		.900		.000		.000		.000		.000		.000		FP5011		2.000		FP5012		2.000		BREF	
△		.980		.000		.000		.000		.000		.000		FP5013		2.000		.000		.000		XREF	
▽		1.200		.000		.000		.000		.000		.000		.000		.000		.000		.000		YREF	
																						SCALE	
																						SQ IN.	



DELTA CLMAX FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (FP5016)

REFERENCE INFORMATION

SRF 173.1312
LREF 25.5100
BREF 20.5096
XMRP 16.8633
YMRP .0000
ZMRP .0000
SCALE .0188

DATA SOURCE
WING 3.000
WING 3.000
WING 3.000

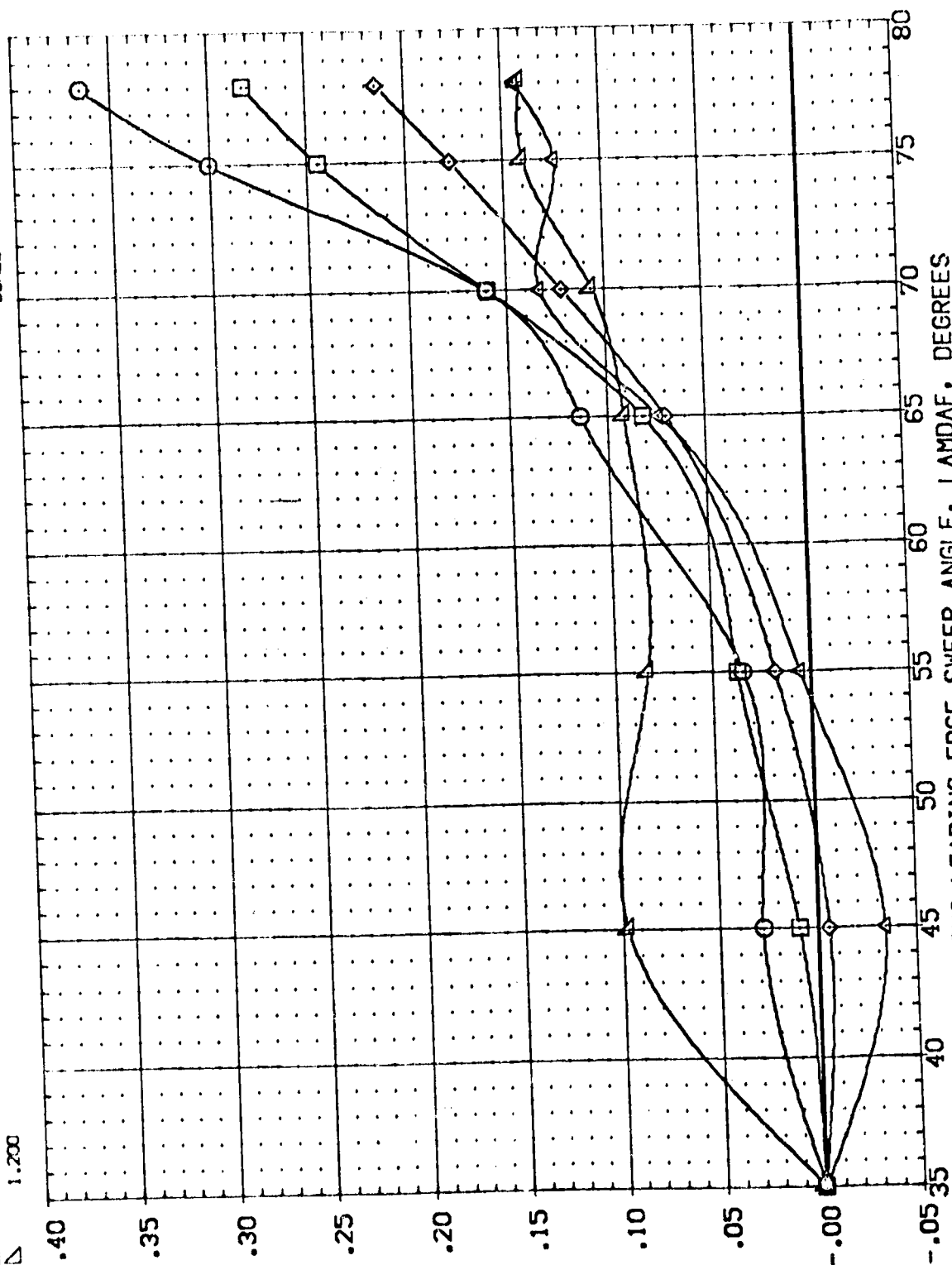
PARAMETRIC VALUES
LMDAF .000
BDFLAP .000
RUCFLR .000

35.000
.000
.000
FP5016
FP5018
FP5020
FP5022

MACH .350
BETA .800
ELEVTR .900
RUCFLR .980
1.200

SYMBOL
○
□
◇
△
▽

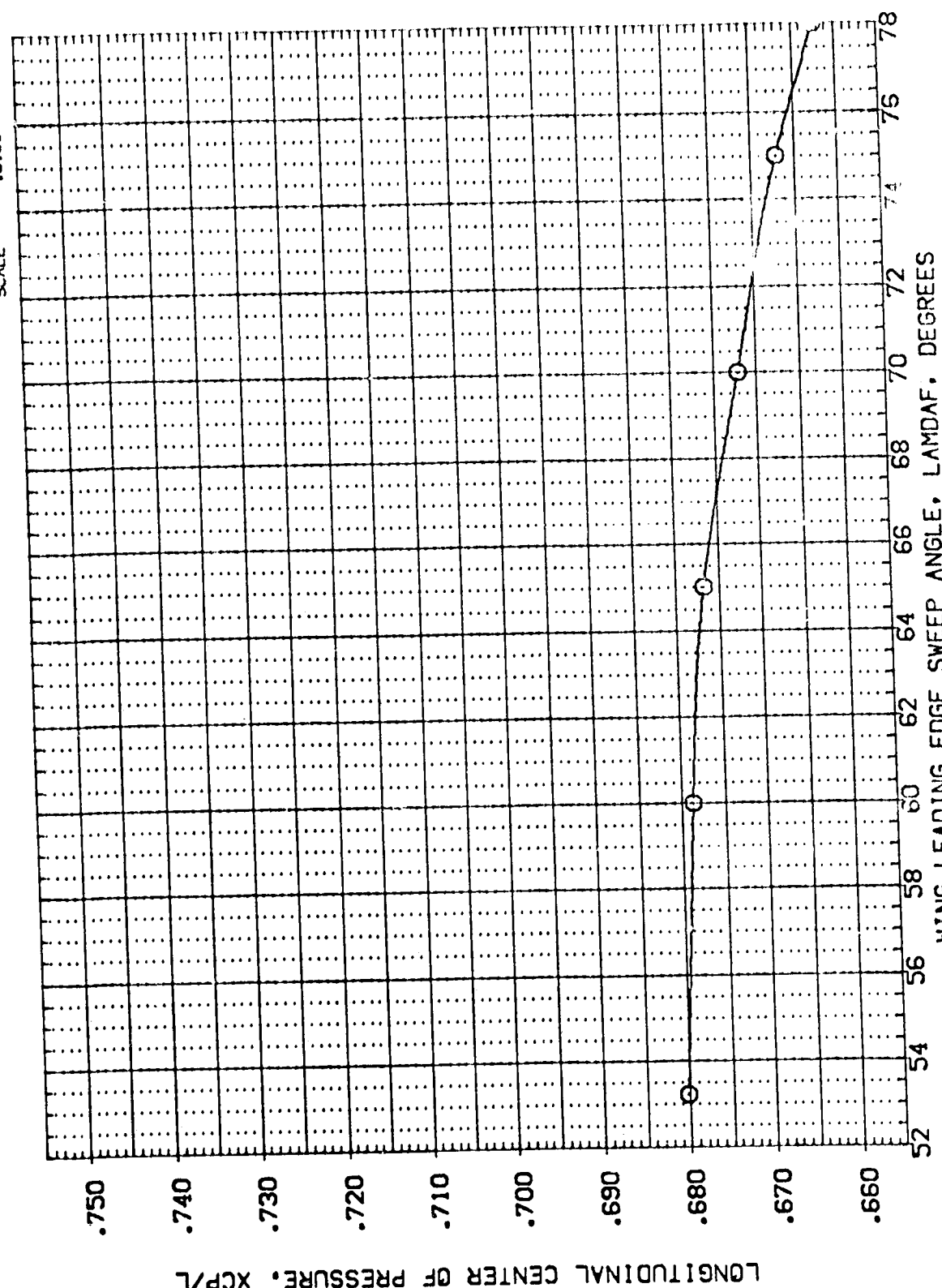
DIFFERENTIAL MAXIMUM LIFT COEFFICIENT, DCLMAX



DELTA CLMAX FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB)(CP5001)

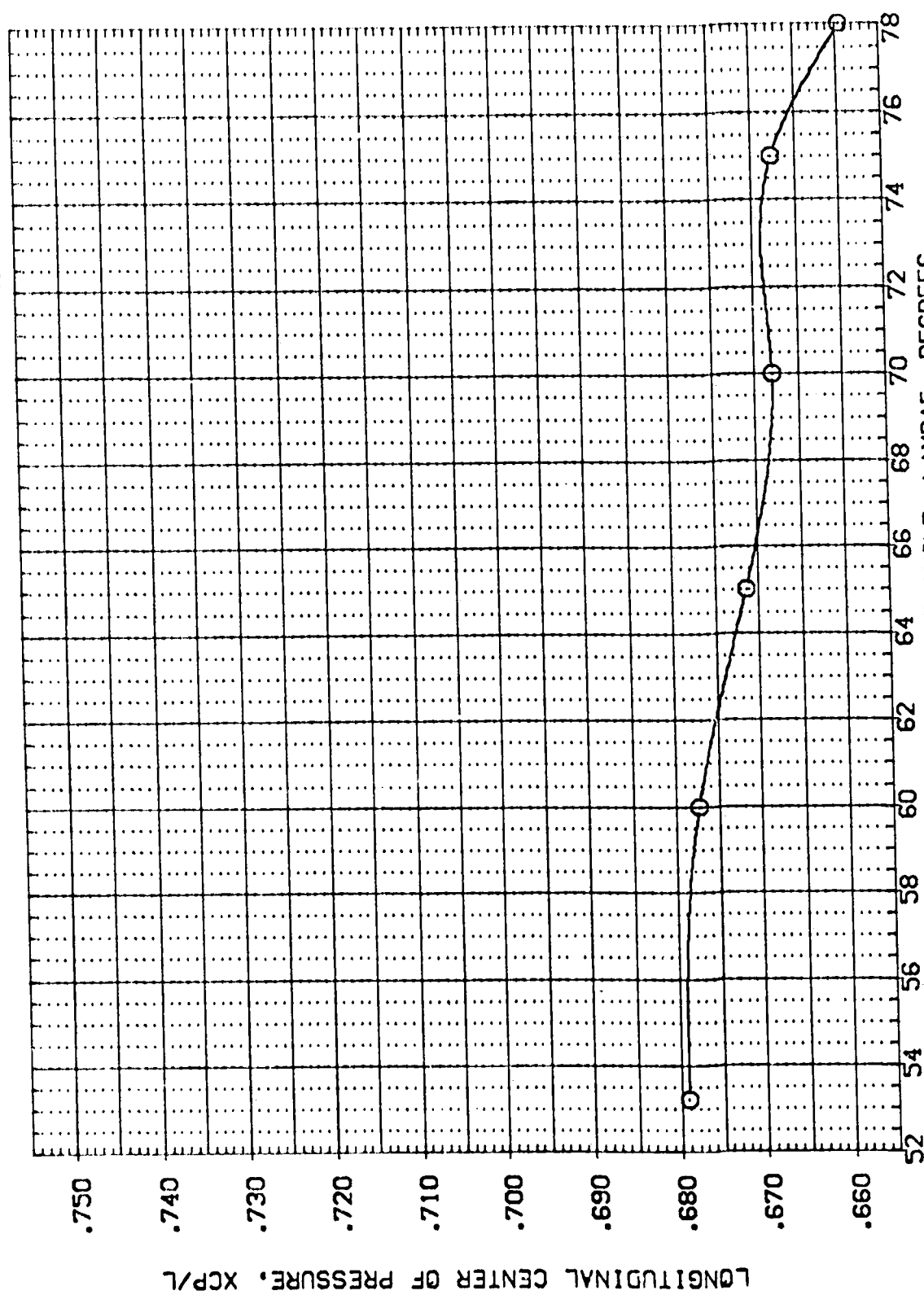
PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
SYMBOL	ALPHA	MACH	BETA	DATASET	LAMDAF	DATASET	LAMDAF	SREF	SC.IN.		
O	8.000	WINGNO	ELEVTR	.000	CP5001	.000	60.000	LREF	25.5100	INCHES	
		BOFLAP	RUOFLR	.000	CP5003	.000	70.000	BREF	19.7156	INCHES	
				.000	CP5005	.000	78.000	XMRP	16.8633	INCHES	
								YMRP	.0000	INCHES	
								ZMRP	.0000	INCHES	
								SCALE	.0188	SCALE	



CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB)(CP5001)

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
SYMBOL	ALPHA	DATA	DATA	SYMBOL	REFERENCE
O	16.000	MACH	CP5001	175.7375	175.7375
		WING	CP5001	25.5100	25.5100
		BOFLAP	CP5003	19.7156	19.7156
			CP5005	16.8633	16.8633
				.0000	.0000
				.0000	.0000
				.0188	.0188
				SCALE	SCALE

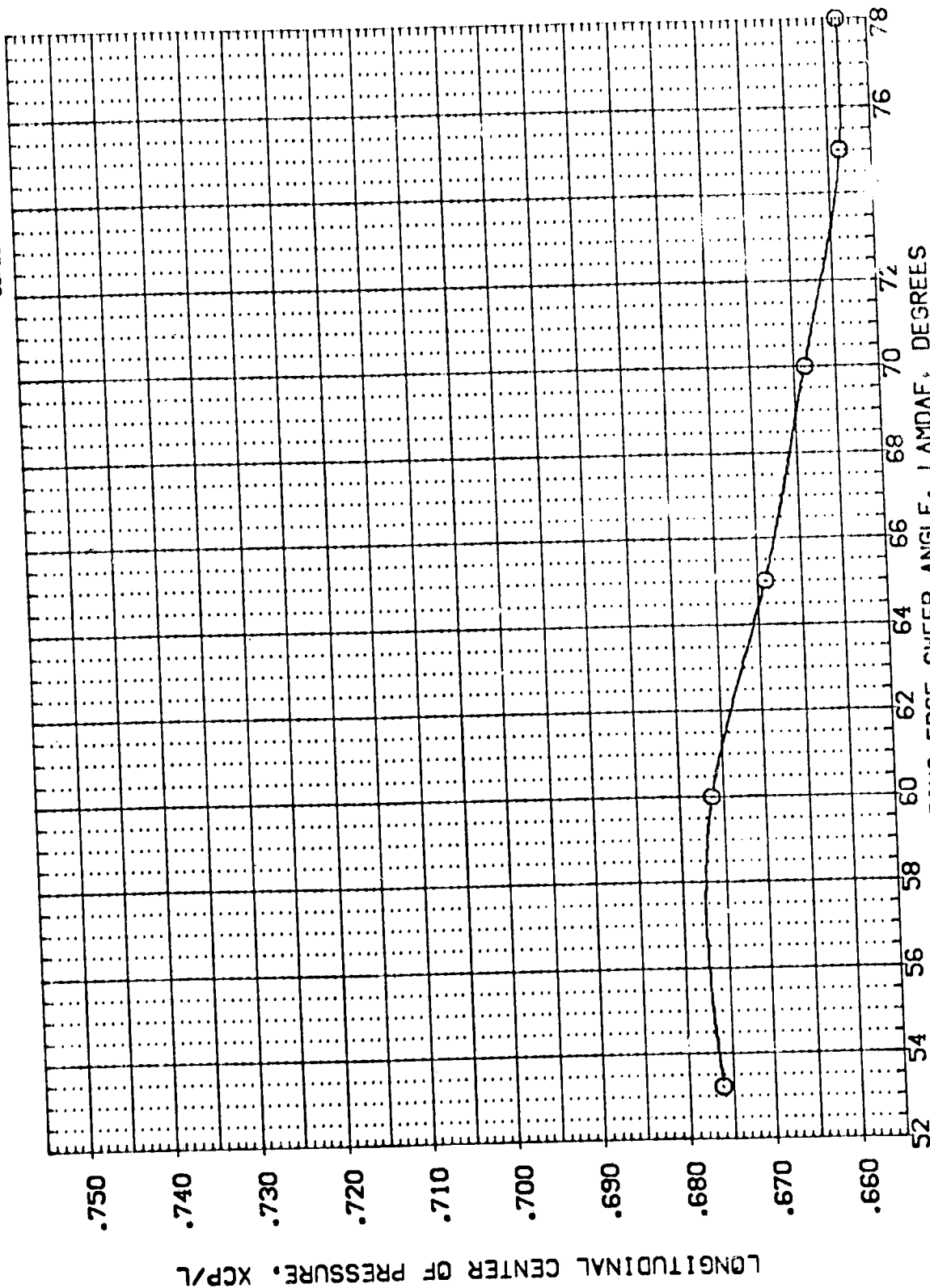


CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB)(CP5001)

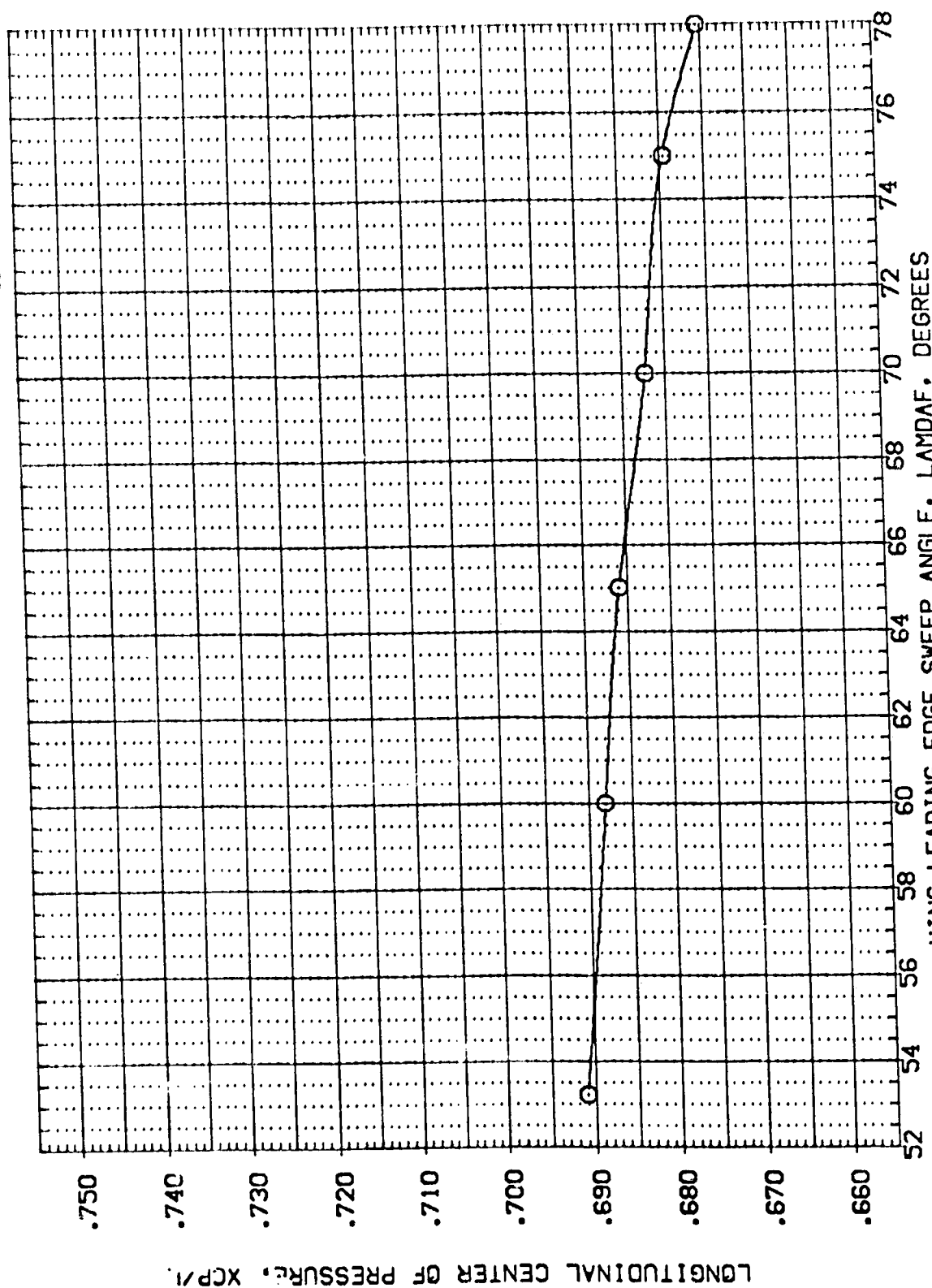
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE		DATASET		LAMDAF		SREF		REFERENCE INFORMATION	
			BETA	ELEVTR	RUOFLR	LAMDAF		CP5001		60.000		LREF		175.7376	53. IN.
O	20.000	VINGNO BOFLAP	.350			53.200		.000	CP5002	70.000		BREF		25.5100	INCHES
			1.000			65.000		.000	CP5004	78.000		XVRRP		19.7156	INCHES
			.000			75.000		.000	CP5006			YVRRP		16.8633	INCHES
												ZVRRP		.0000	INCHES
												SCALE		.0188	SCALE



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB)(CP5001)

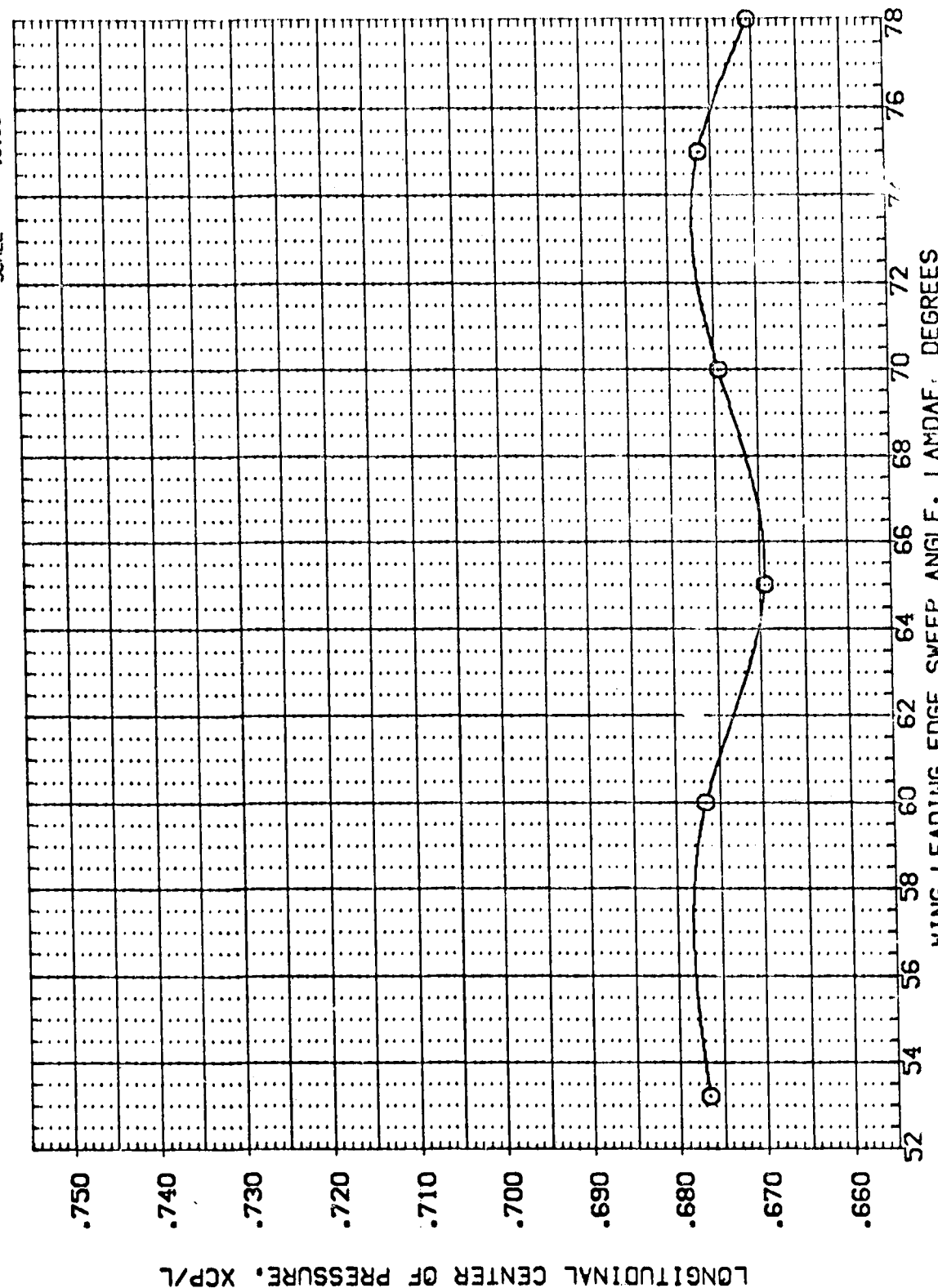
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
			.800	BETA	.000	DATASET	LAMDAF	SREF	SG, IN.	INCHES	INCHES
O	8.000	VINGND	1.000	ELEVTR	.000	CP5001	60.000	LREF	175.7376	25.5100	19.7156
		BOFLAP	.000	RUOFLR	.000	CP5003	70.000	BREF	16.8633	.0000	.0000
					.000	CP5005	78.000	YMFP	.0000	.0000	.0188
								ZMFP			SCALE



CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

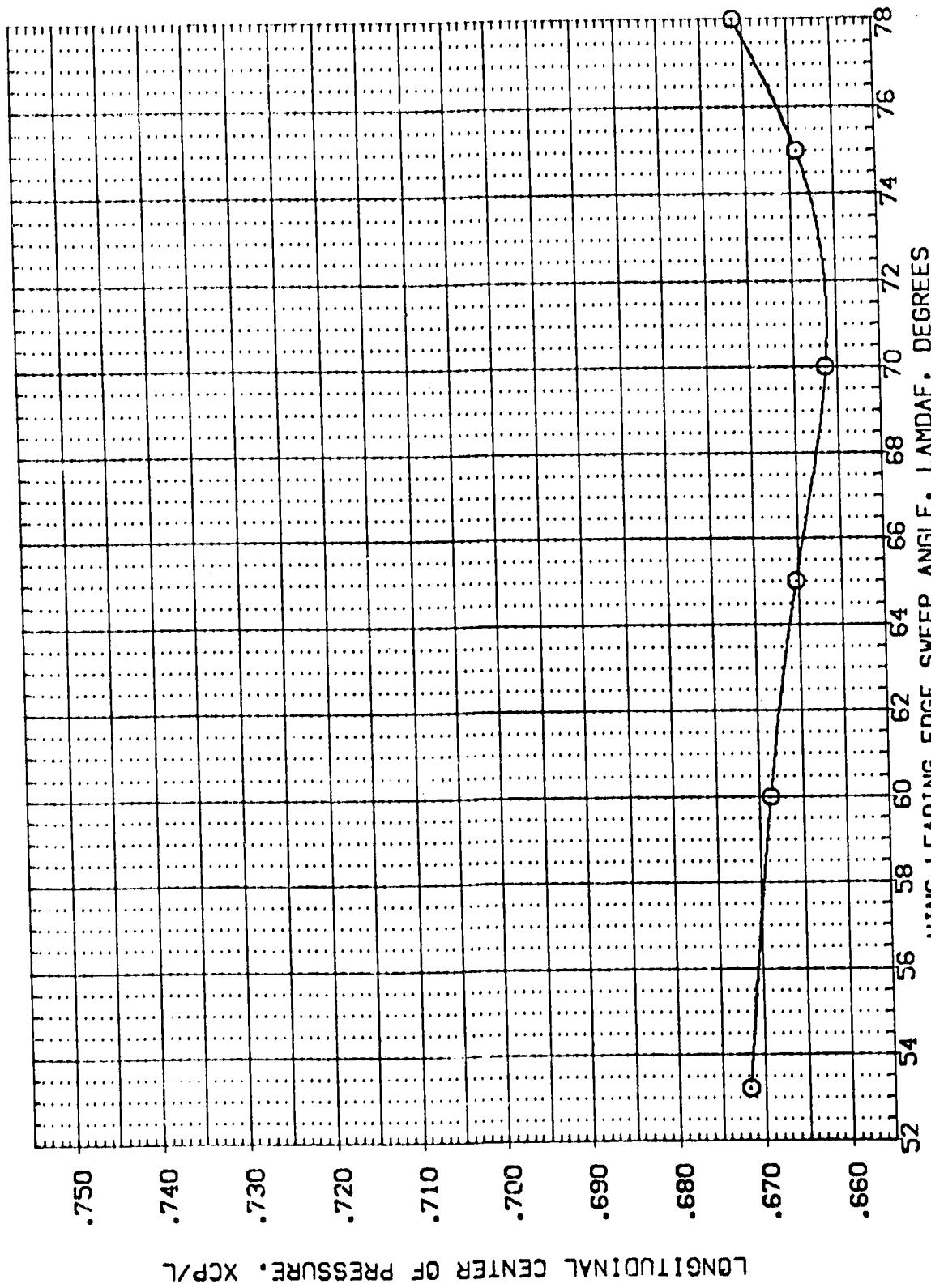
SYMBOL	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	DATASET	LAMDAF	LAMDAF	SREF	SC.IN.	INCHES
O	16.000		.800	.000	CP5001	60.000	175.7376	25.5100	19.7156
		VINGNO	1.000	.000	CP5003	70.000	16.8633	.0000	.0000
		BOFLAP	.000	.000	CP5005	78.000	16.8633	.0000	.0188
							ZMRP	SCALE	



CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BOFLAP	.000	DATASET	LAMDAF	SREF	SO. IN.	SCALE
○	20.000	.800	1.000	.000	CP5001	53.200	LREF	175.7375	100.000
		1.000	1.000	.000	CP5003	65.000	BREF	25.5100	100.000
		.000	.000	.000	CP5005	75.000	XREF	19.7156	100.000
							YREF	16.6633	100.000
							ZREF	.0000	100.000
							SCALE	.0188	

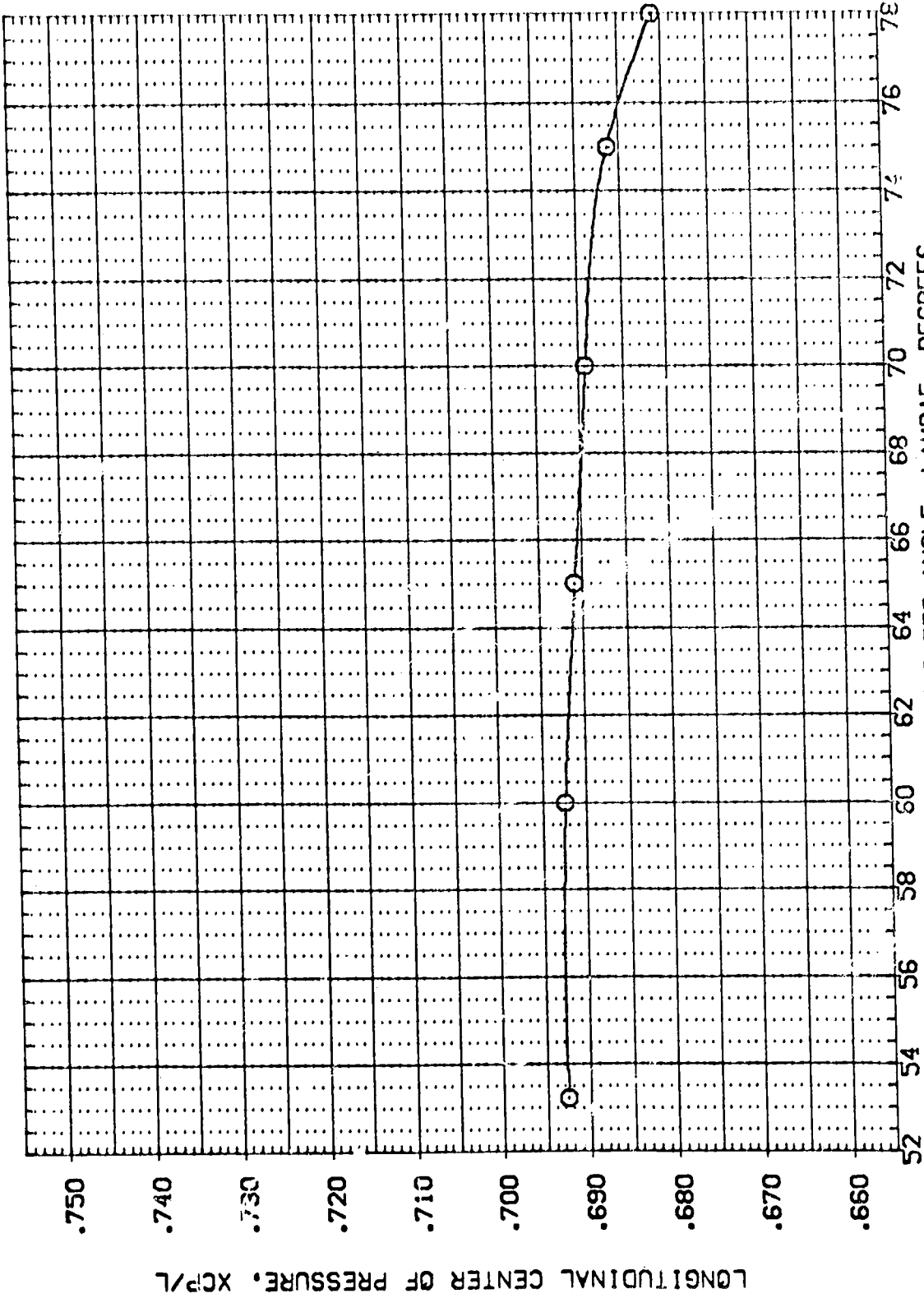


CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

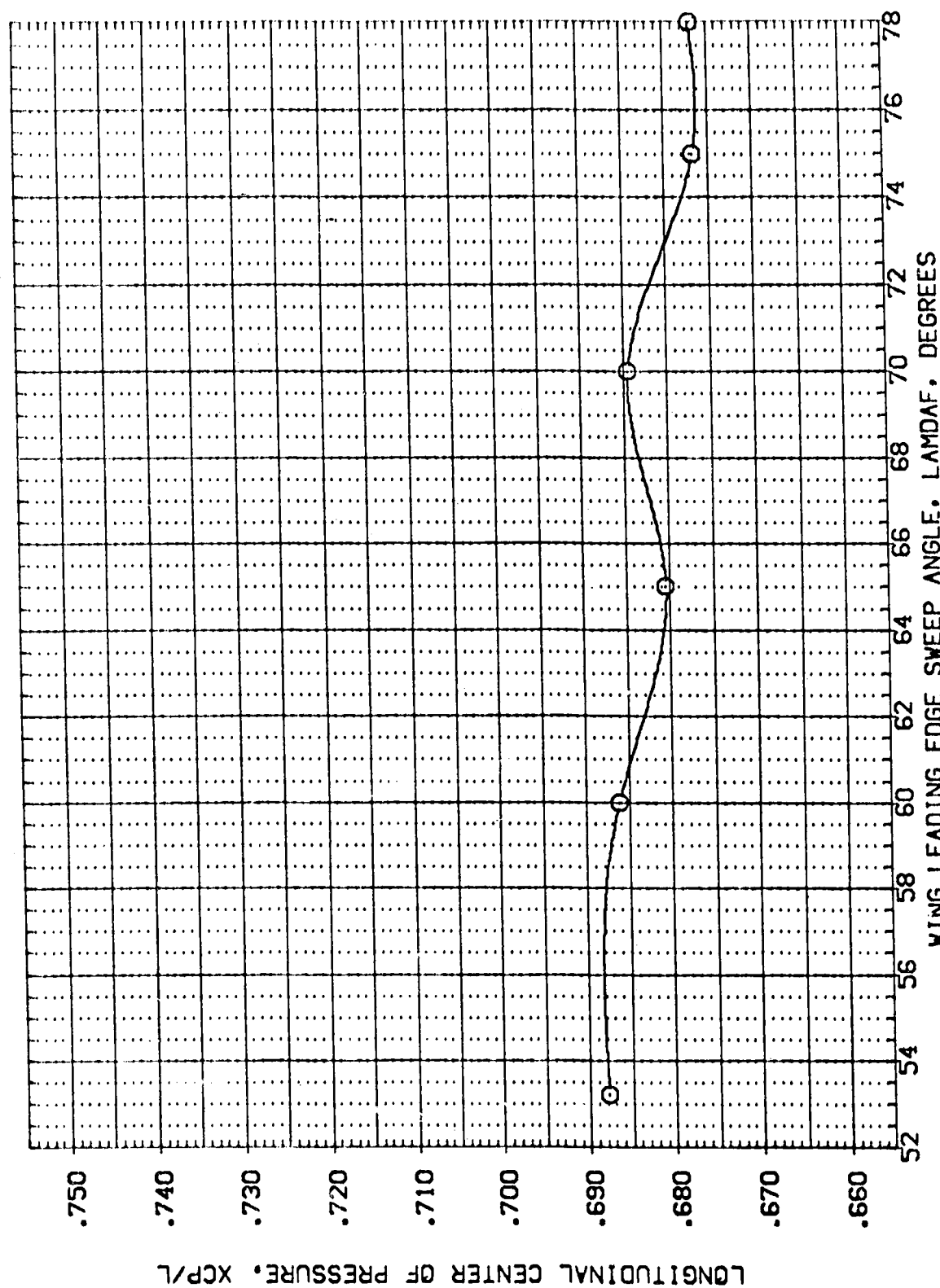


LARC 8-F7 TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION				
		MACH	BETA	ELEVTR	BOFLAP	.000	DATASET	LAMDAF	DATASET	LAMDAF	SREF	SO IN
O	8.000		.900	1.000			CP5001	53.200	CP5002	60.000	LREF	175.7375
							CP5003	65.000	CP5004	70.000	BREF	25.5100
							CP5005	75.000	CP5006	78.000	YMRP	19.7156
											YMRP	16.8633
											YMRP	.0000
											YMRP	.0000
											YMRP	.0188
											SCALE	



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

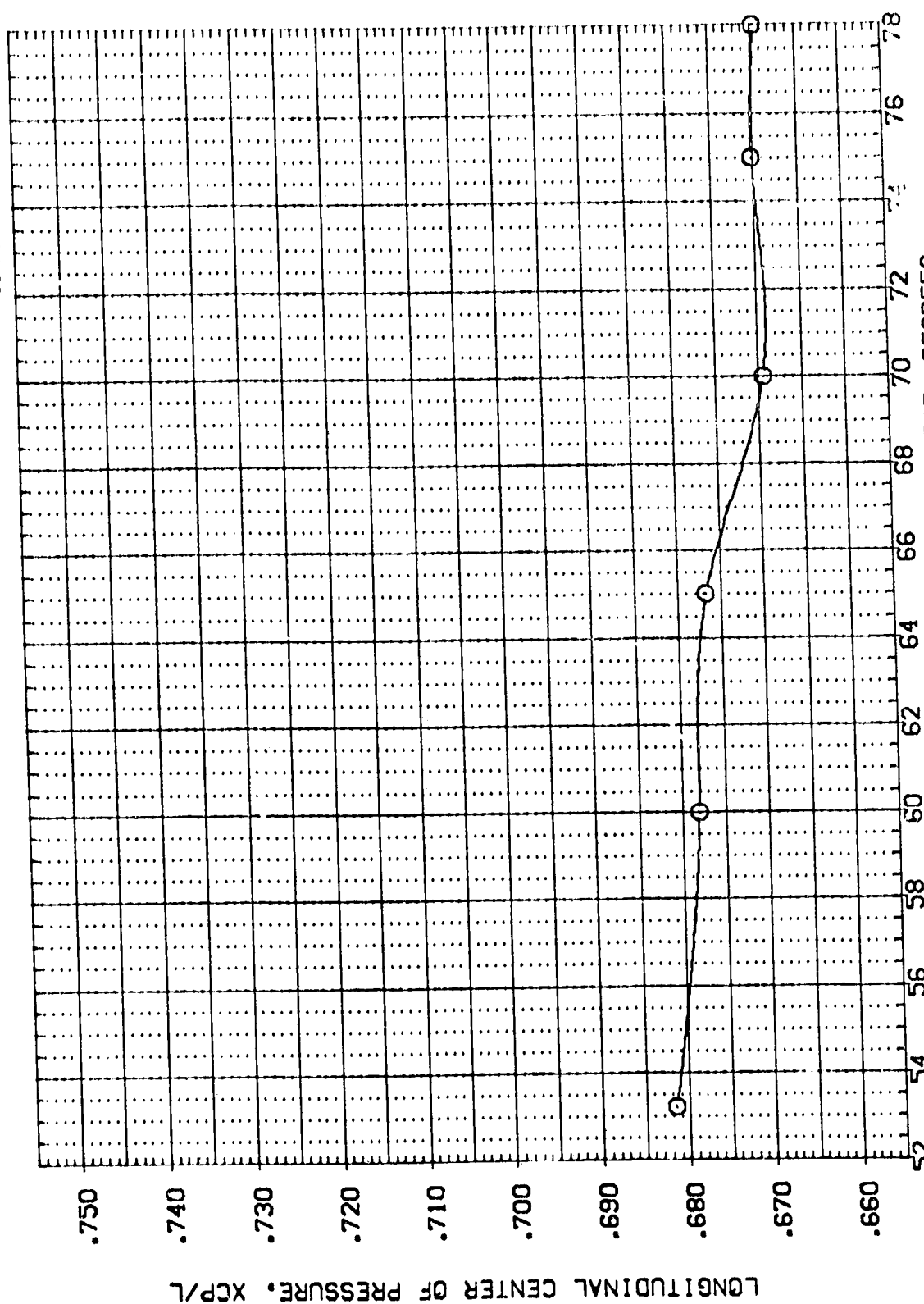
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CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

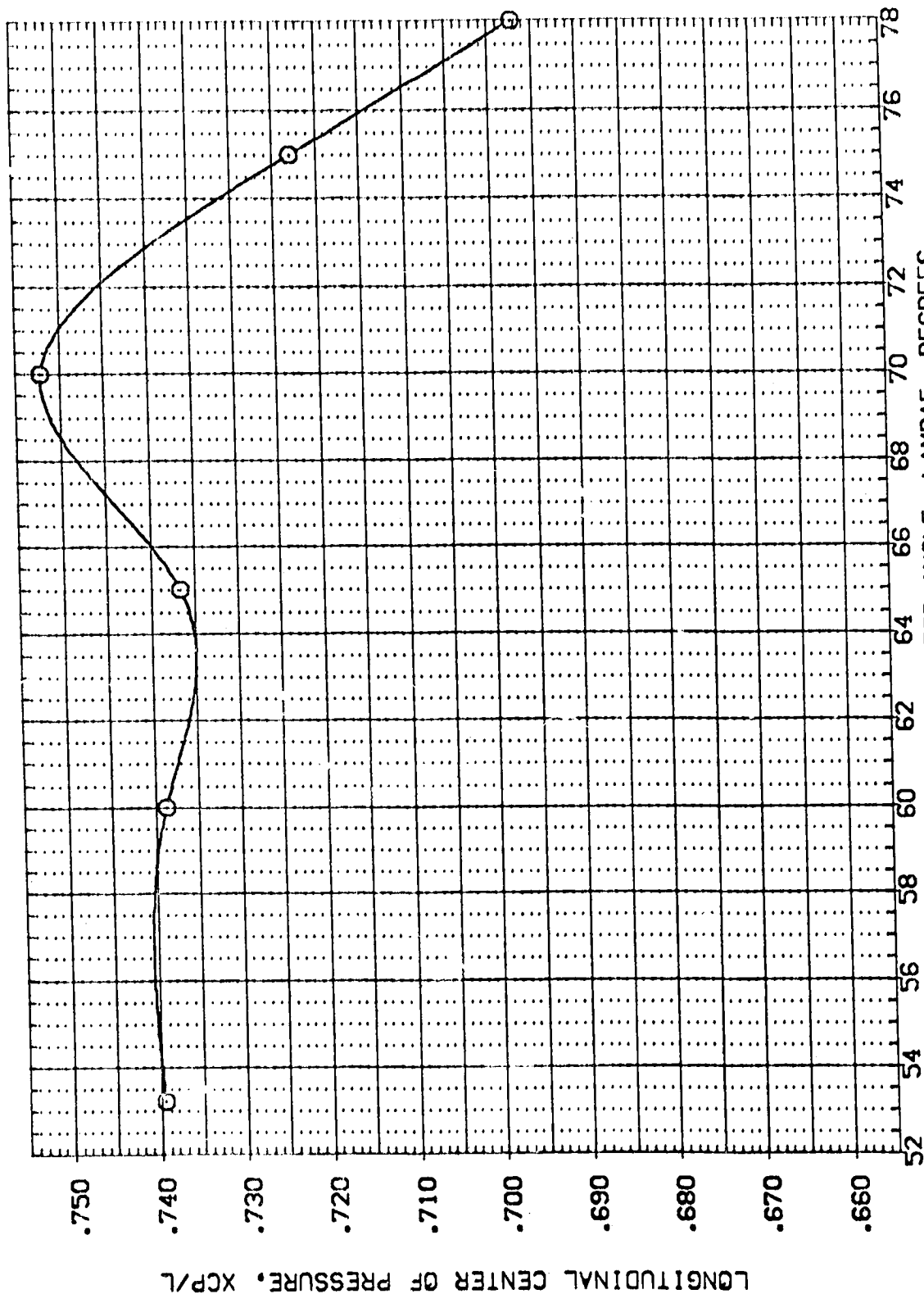
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION		
			WING	ELEVTR	RUOFLR	.000	DATASET	LAMDAF	SREF	SO IN.
○	20.000	WING	1.000	1.000	.000	.000	CP5001	60.000	LREF	25.5100
		BOFLAP	.000	.000	.000	.000	CP5003	70.000	SRFP	19.7156
						.000	CP5005	78.000	YRFP	16.5633
									ZRFP	.0000
									SCALE	.0188



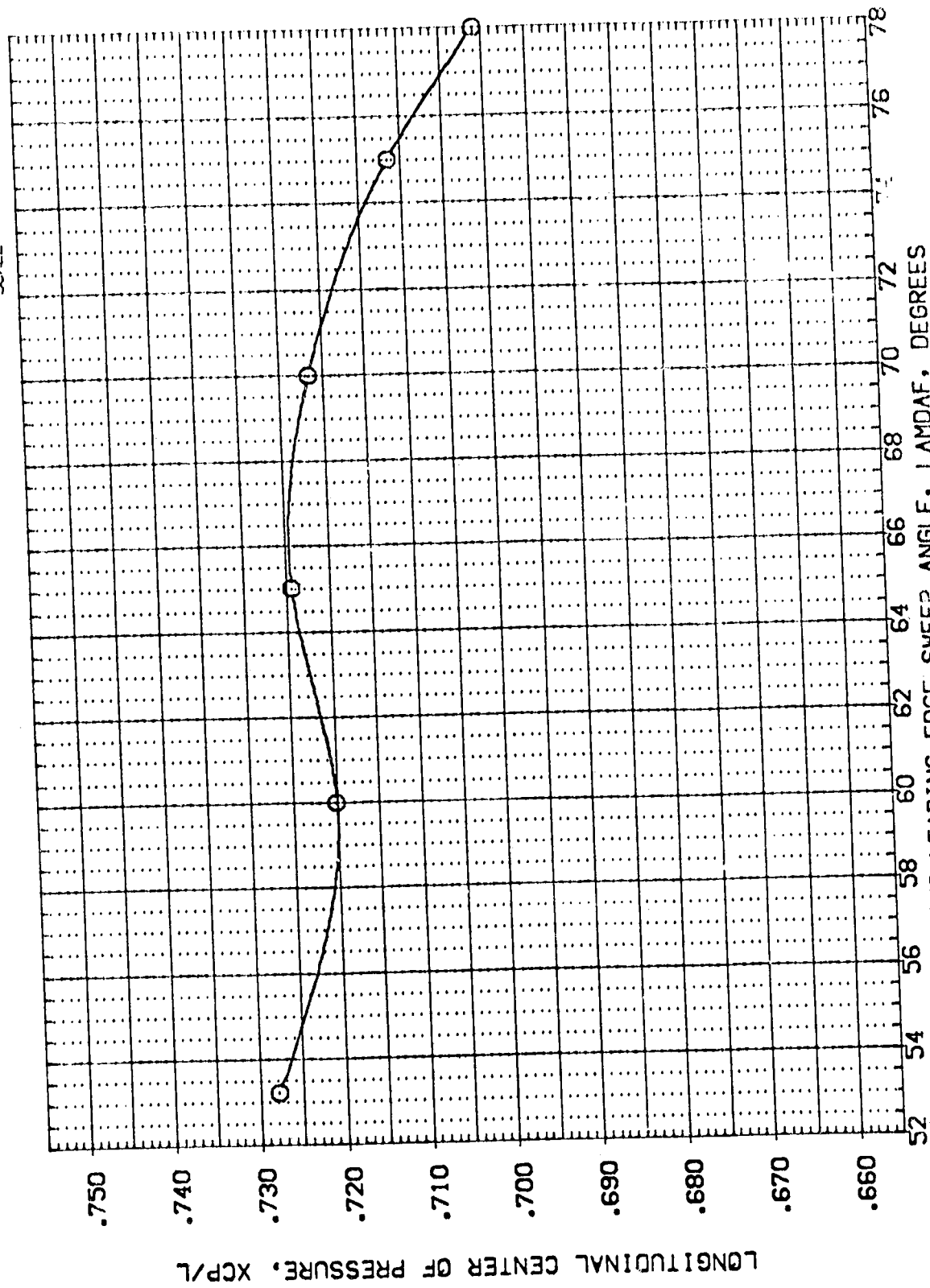
CENTER OF PRESSURE FOR LO-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LC-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

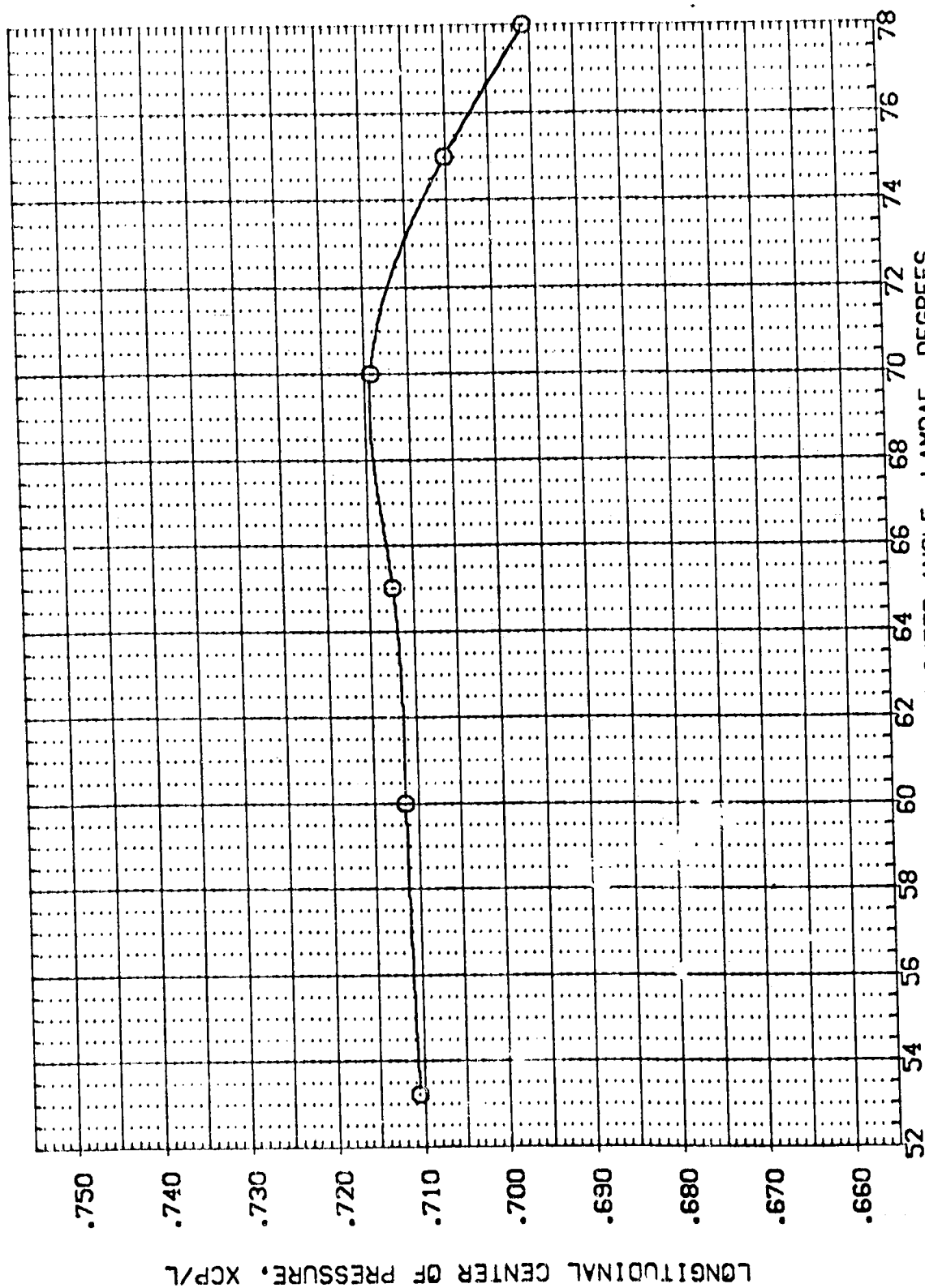
PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
SYMBOL	ALPHA	MACH	BETA	.000	DATASET	LAMDA	REF	175.7376	INCHES	SCALE	
0	8.000	VINGNG	ELEVTR	.000	CP5001	53.200	LREF	25.5100	INCHES		
		BOFLAP	RUEFLR	.000	CP5003	65.000	BREF	19.7156	INCHES		
				.000	CP5005	75.000	XREF	16.6833	INCHES		
							YREF	.0000	INCHES		
							ZREF	.0000	INCHES		
							SCALE	.2188	SCALE		



CENTER OF PRESSURE FOR LC-100 WING (B W1 V FB)

[illegible]

CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

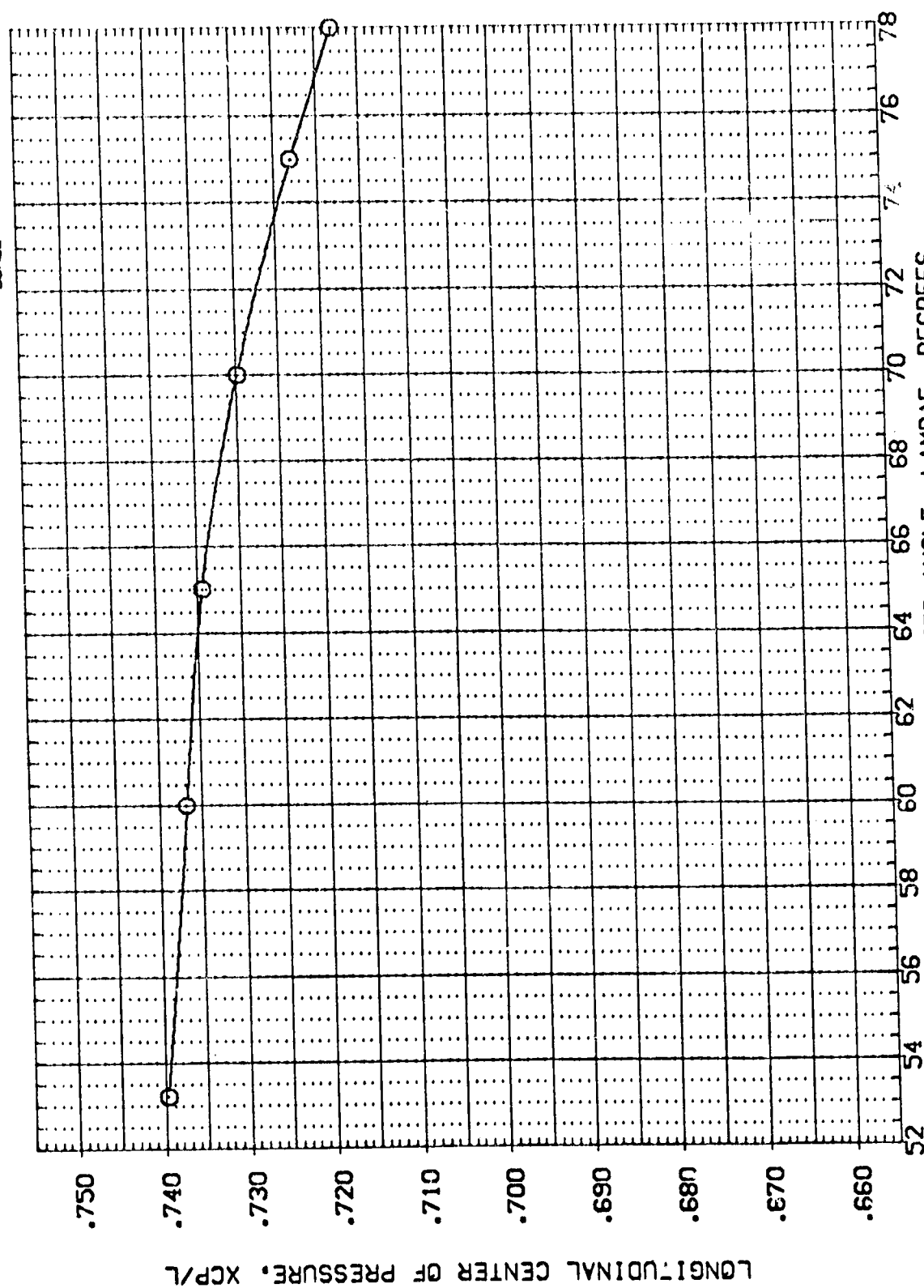
[illegible]

WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES	58	60	62	64	66	68	70
--	----	----	----	----	----	----	----

CENTER OF PRESSURE FOR LQ-100 WING (B W I V F B)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

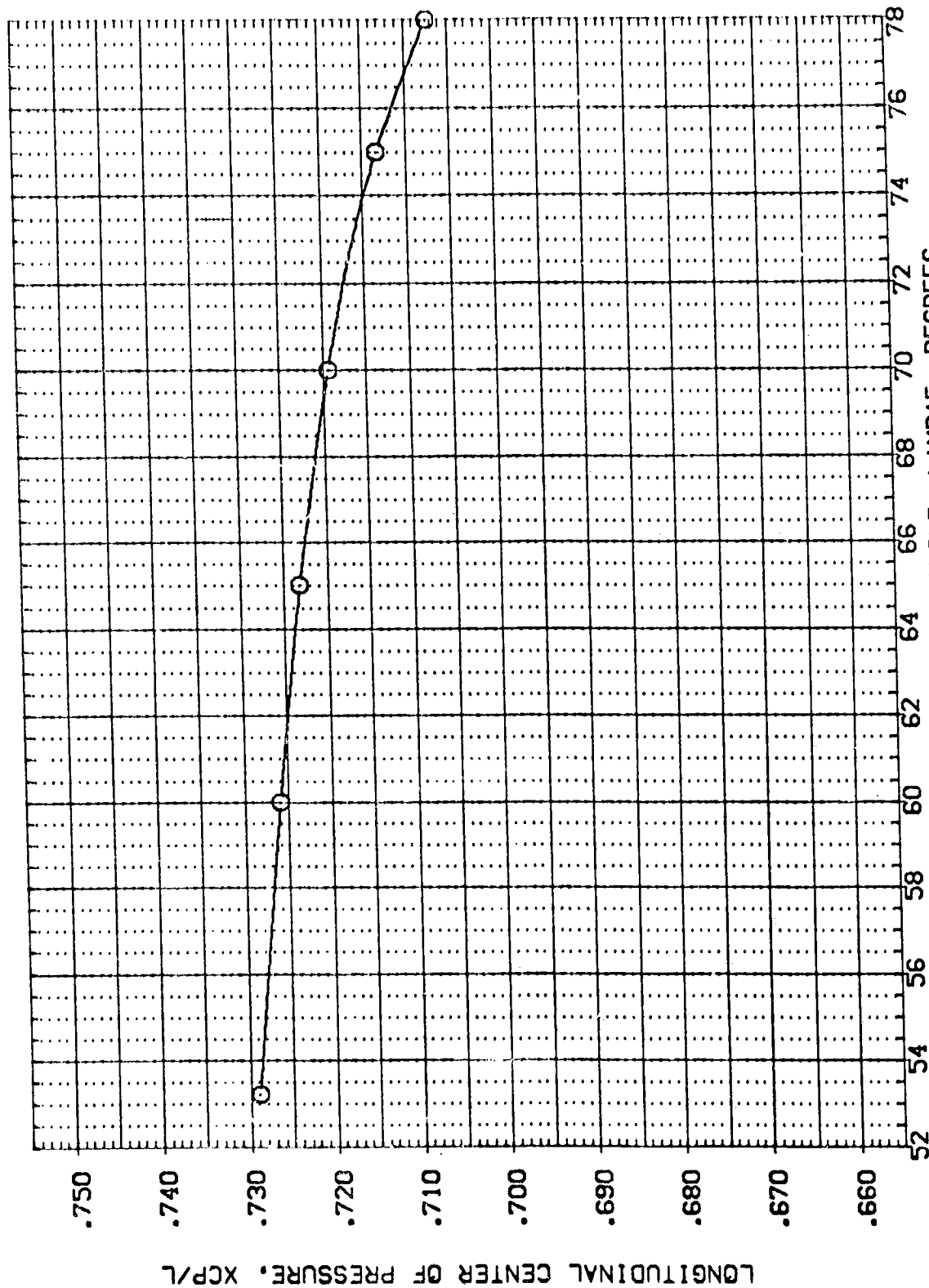
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
O	8.000	WING	1.200 BETA	LAMDAF	175.7375 SQ. IN.
		BOFLAP	1.000 ELEVTR	CP5001	25.5100 INCHES
			.000 RUOFLR	CP5002	19.7156 INCHES
				CP5003	16.6633 INCHES
				CP5005	.0000 INCHES
				CP5006	.0000 INCHES
				SCALE	.0188



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB)(CP5001)

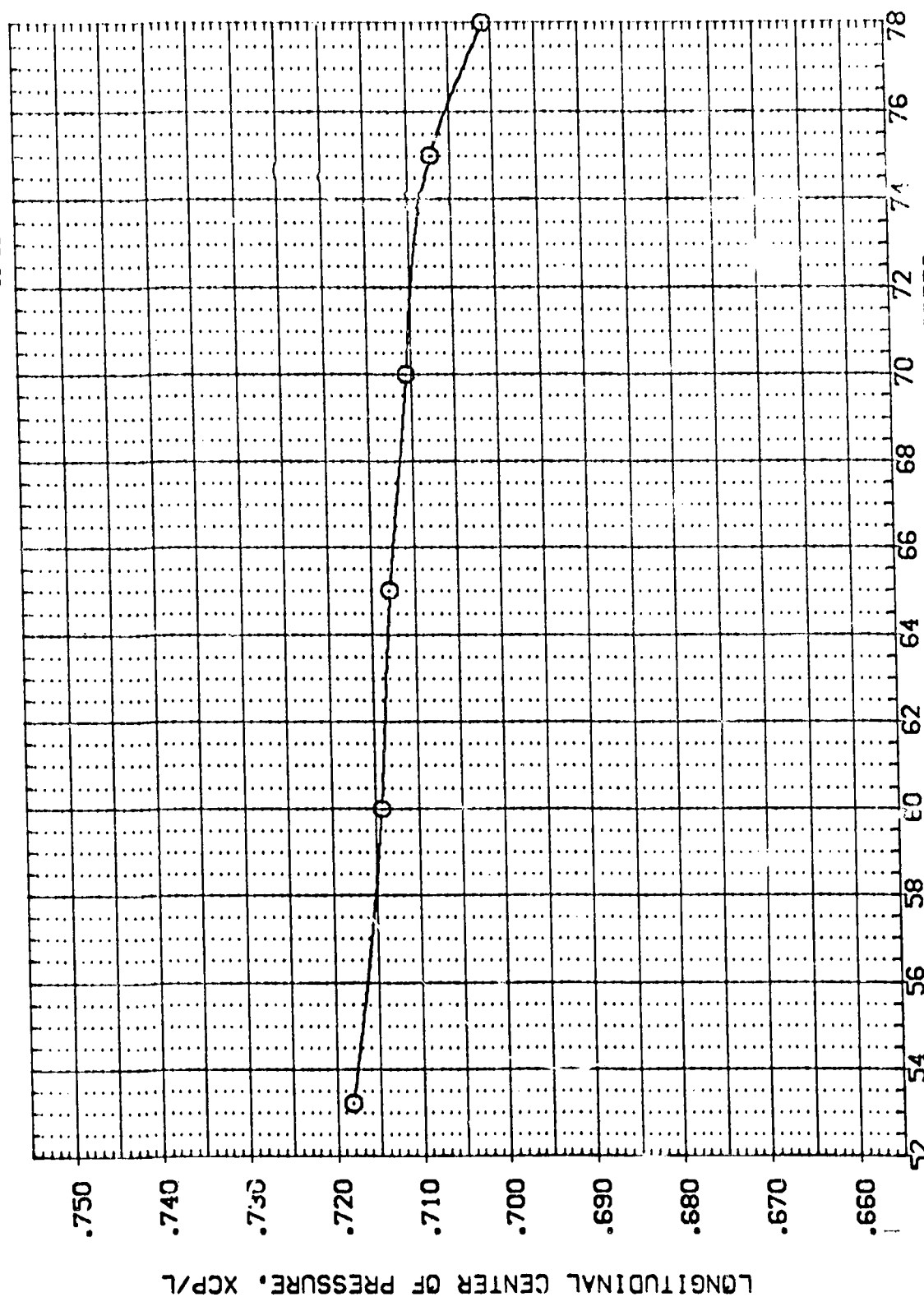
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATA SET	LAMDAF	SREF	REFERENCE INFORMATION
O	16.000	WING BOFLAP	BETA ELEVTR ROFLR	.000 .000 .000	CP5001 CP5003 CP5005	53.200 55.000 75.000	LREF BREF XREF YREF ZREF	50. IN. INCHES INCHES INCHES INCHES SCALE
								175.7375 25.5100 19.7155 16.8633 .0000 .0000 .0188



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW1VFB) (CP5001)

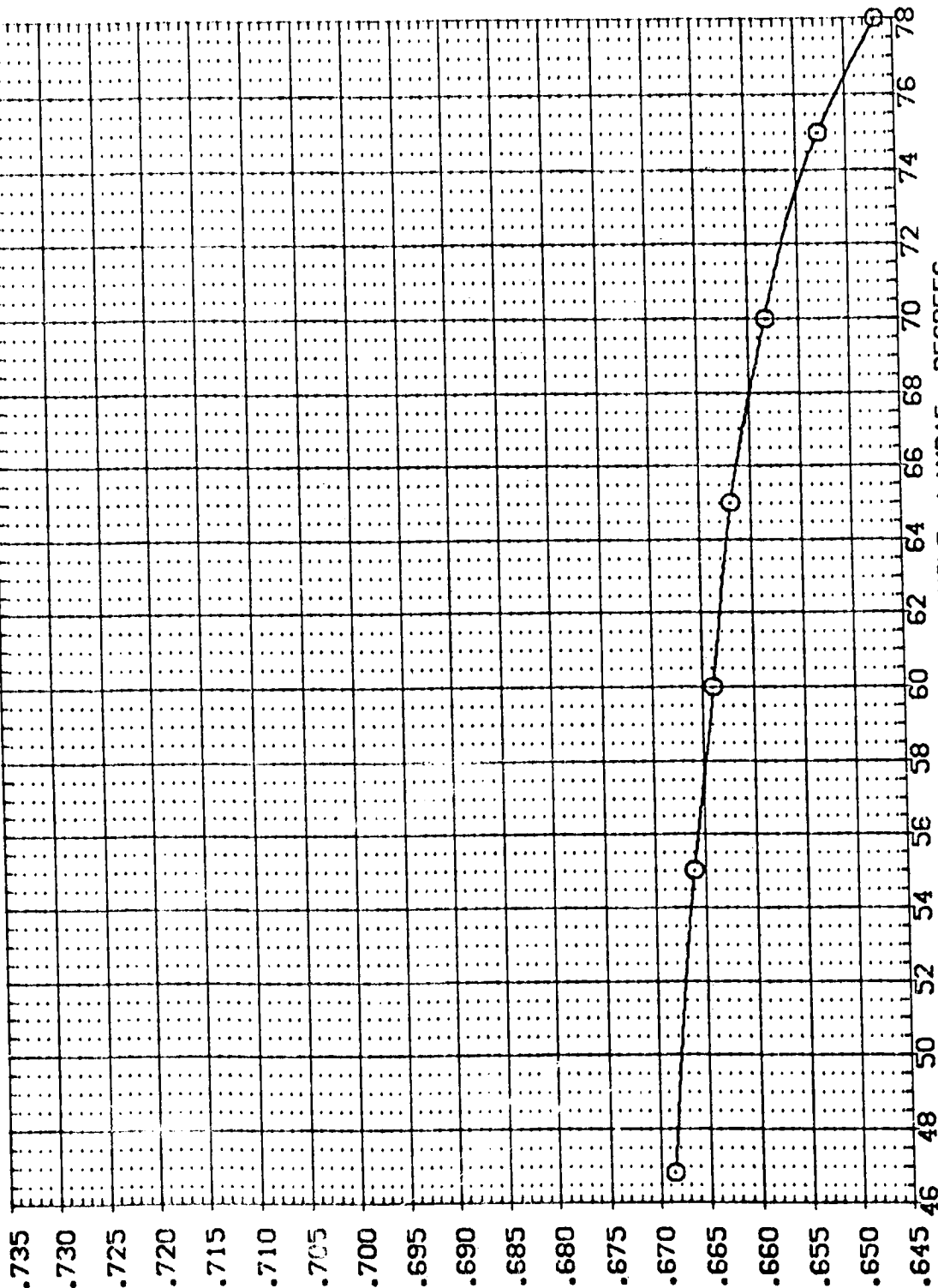
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE		DATASET		LAMDAF		REFERENCE INFORMATION			
			BETA	ELEVTR	RJDFLR	LAMDAF		CP5001		60.000		SREF	LREF	BREF	SG, IN.
○	20.000	WINGND	1.200	1.000	.000	53.200	.000	CP5001	.000	70.000	.000	175.7376	25.5100	19.7156	INCHES
		BOFLAP				75.000	.000	CP5003	.000	78.000	.000	16.8633	XPRP	.0000	INCHES
							.000	CP5005	.000			ZPRP	.0000	.0000	INCHES
												SCALE	.0188		SCALE



CENTER OF PRESSURE FOR L0-100 WING (B W1 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION				
			.350	BETA	ELEVTR	.000	DATASET	LAMDAF	SREF	171.4720	50.1N	INCHES
○	8.000	WING-33	2.000	ELEVTR	46.800	.000	CP5007	55.000	LREF	25.5100	INCHES	INCHES
		BOFLAP	.000	RUOFLR	60.000	.000	CP5009	65.000	EREF	20.3597	INCHES	INCHES
					70.000	.000	CP5010	75.000	XREF	15.8633	INCHES	INCHES
					78.000	.000	CP5011		YREF	.0000	INCHES	INCHES
							CP5013		ZREF	.0000	INCHES	INCHES
									SCALE	.0188	SCALE	SCALE



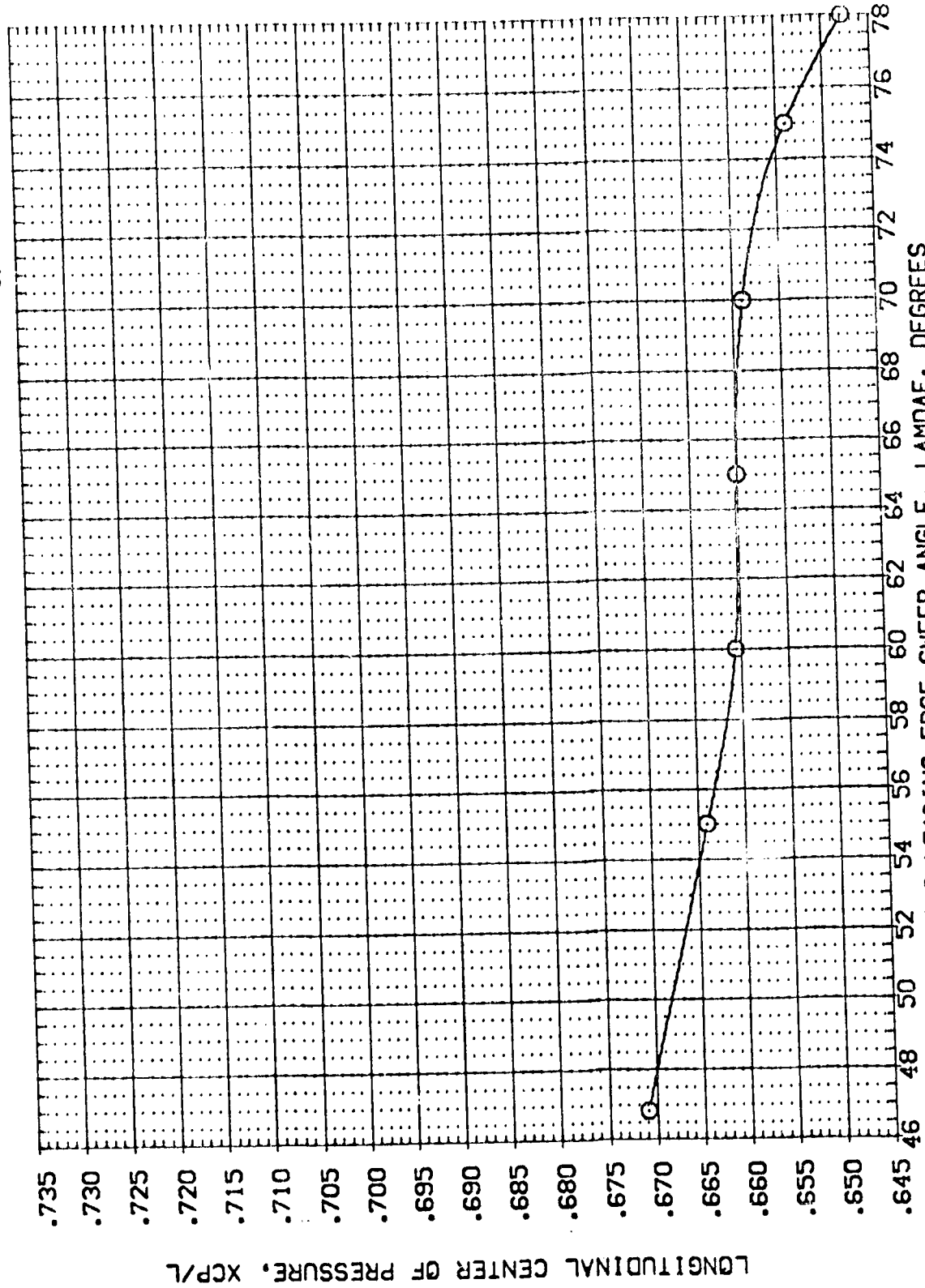
WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

111111

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

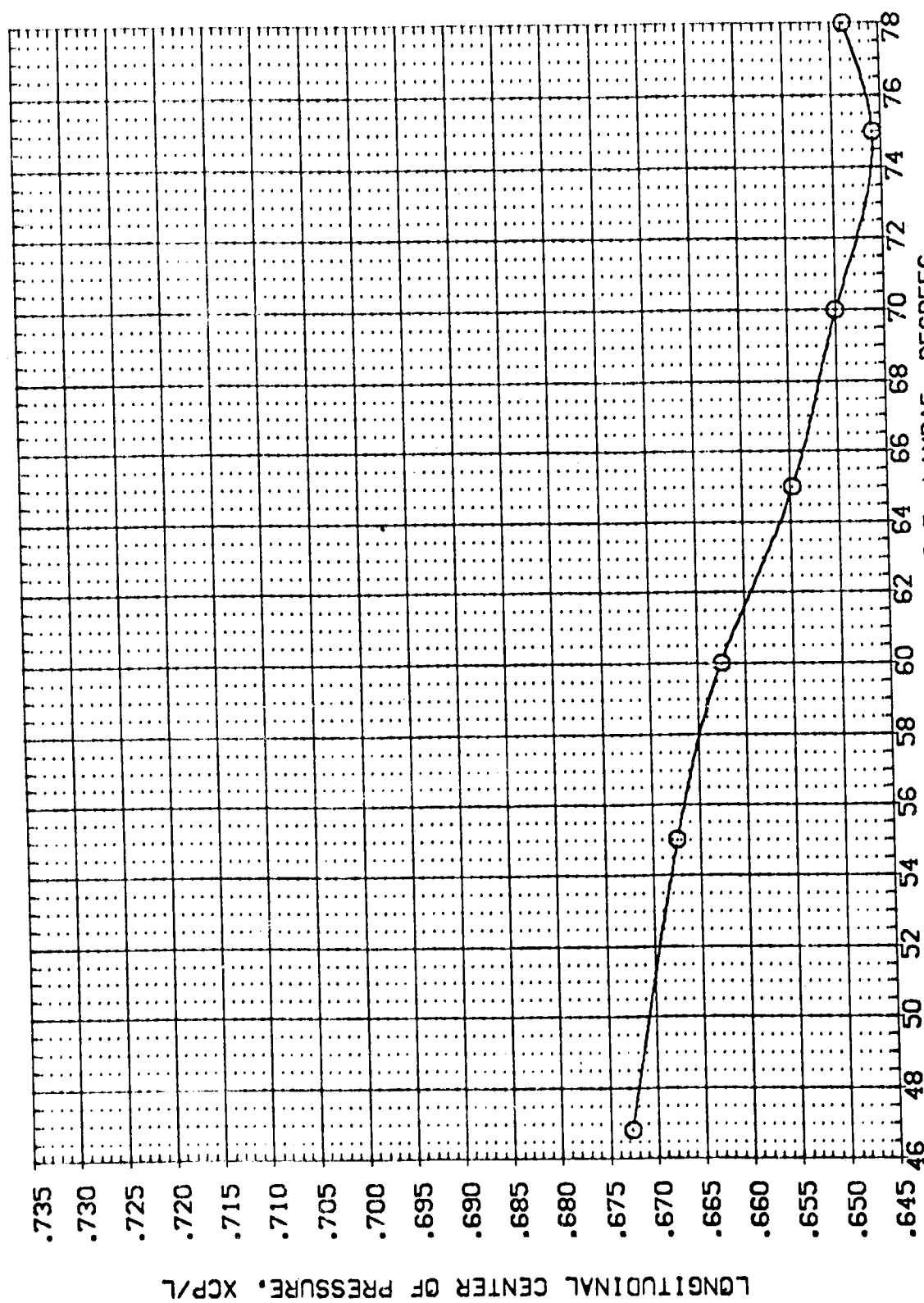
SYMBOL		ALPHA		MACH		PARAMETRIC VALUES		DATA SOURCE		DATASET		LAMDAF		SREF		REFERENCE INFORMATION	
O		15.000	WING	.350	2.000	BETA	ELEVTR	.000	CP5007	.000	CP5008	55.000	LREF	171.4720	50.000	171.4720	50.000
			WING	.000	.000	ELEVTR	RUDFLR	.000	CP5009	.000	CP5010	65.000	XREF	25.5100	25.5100	25.5100	25.5100
			BOFLAP	.000	.000	RUDFLR			CP5011	.000	CP5012	75.000	YREF	16.8333	16.8333	16.8333	16.8333
									CP5013	.000	CP5013	78.000	ZREF	.0000	.0000	.0000	.0000



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
SYMBOL	ALPHA	MACH	DATA SET	DATA SET	SCALE
O	20.000	.350	CP5007	CP5008	171.4720
		2.000	CP5009	CP5010	25.5100
		.000	CP5011	CP5012	20.3597
			CP5013		15.8633
					.0000
					.0000
					.0188

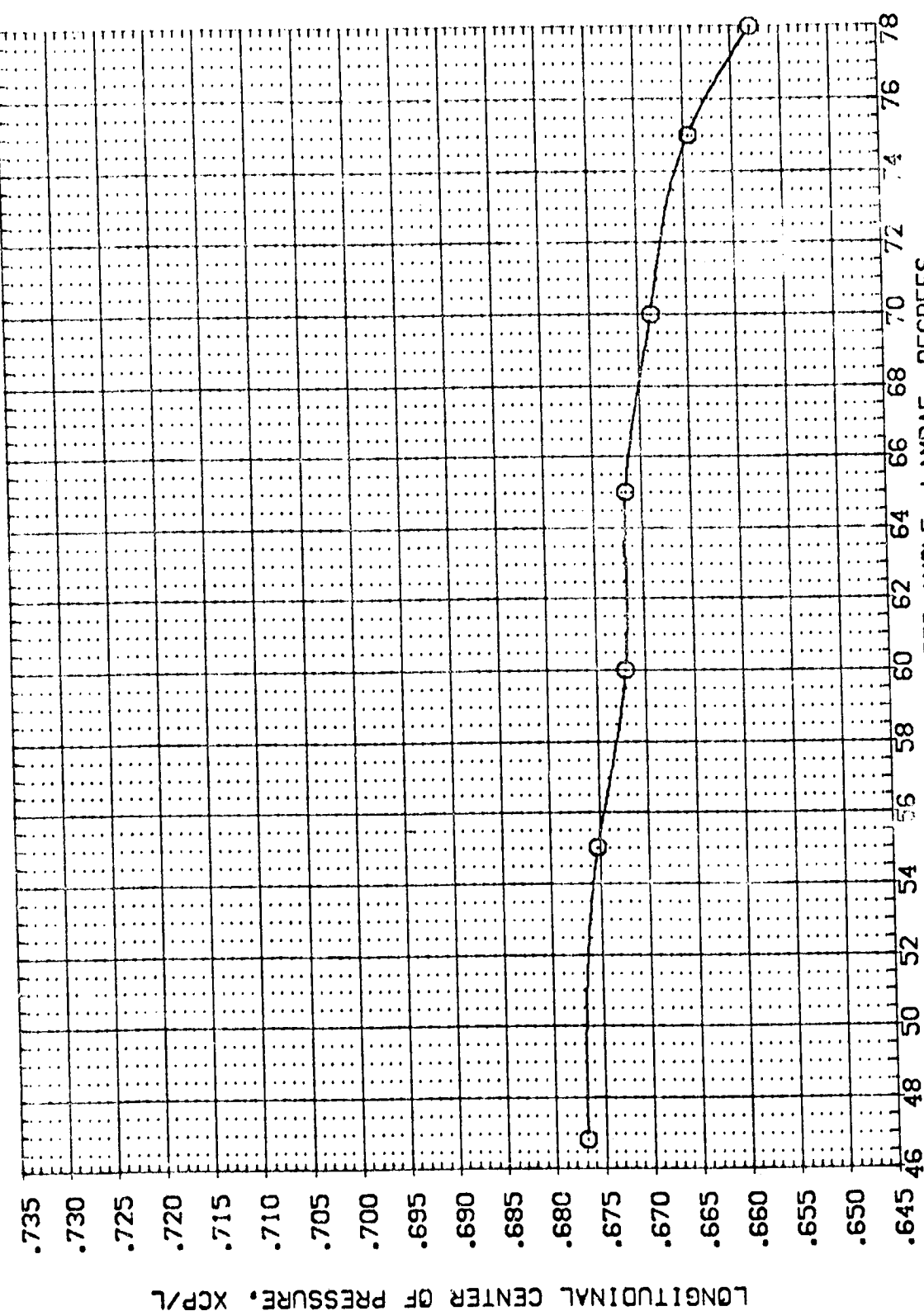


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

1111

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

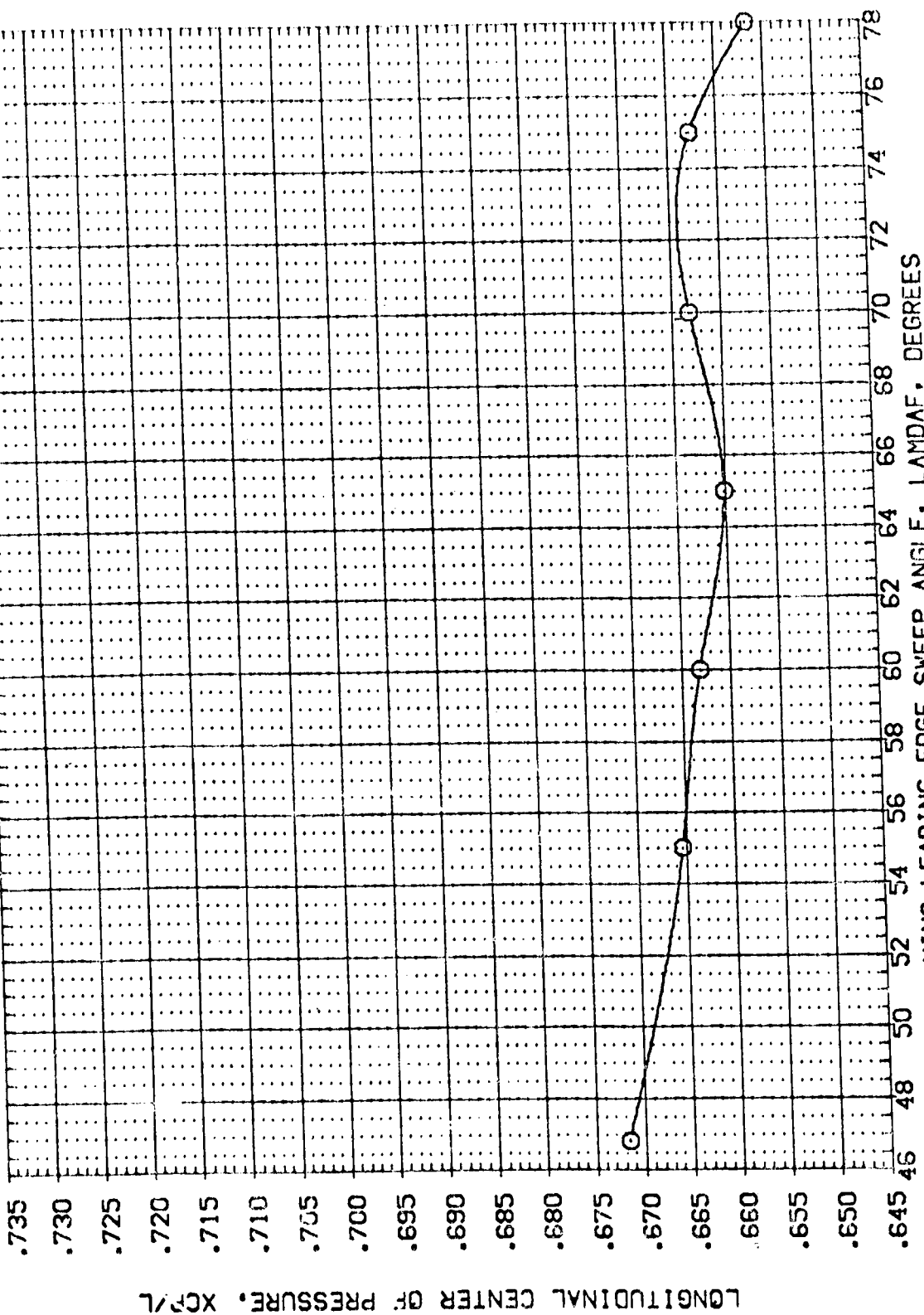
SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	SCALE	DATASET	LAMDAF	SREF	SCALES	INCHES	INCHES
0	8.000	WING	ELEVTR	0.000	CP5007	55.000	LREF	171.4720	25.5100	20.3597
		BOFLAP	RLOFLR	0.000	CP5008	65.000	BREF	16.8633	0.0000	0.0000
				0.000	CP5010	75.000	XREF	0.0000	0.0000	0.0000
				0.000	CP5011	78.000	YREF	0.0000	0.0000	0.0000
				0.000	CP5013		ZREF	0.0000	0.0000	0.0000
							SCALE	0.0188		



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)(CP5007)

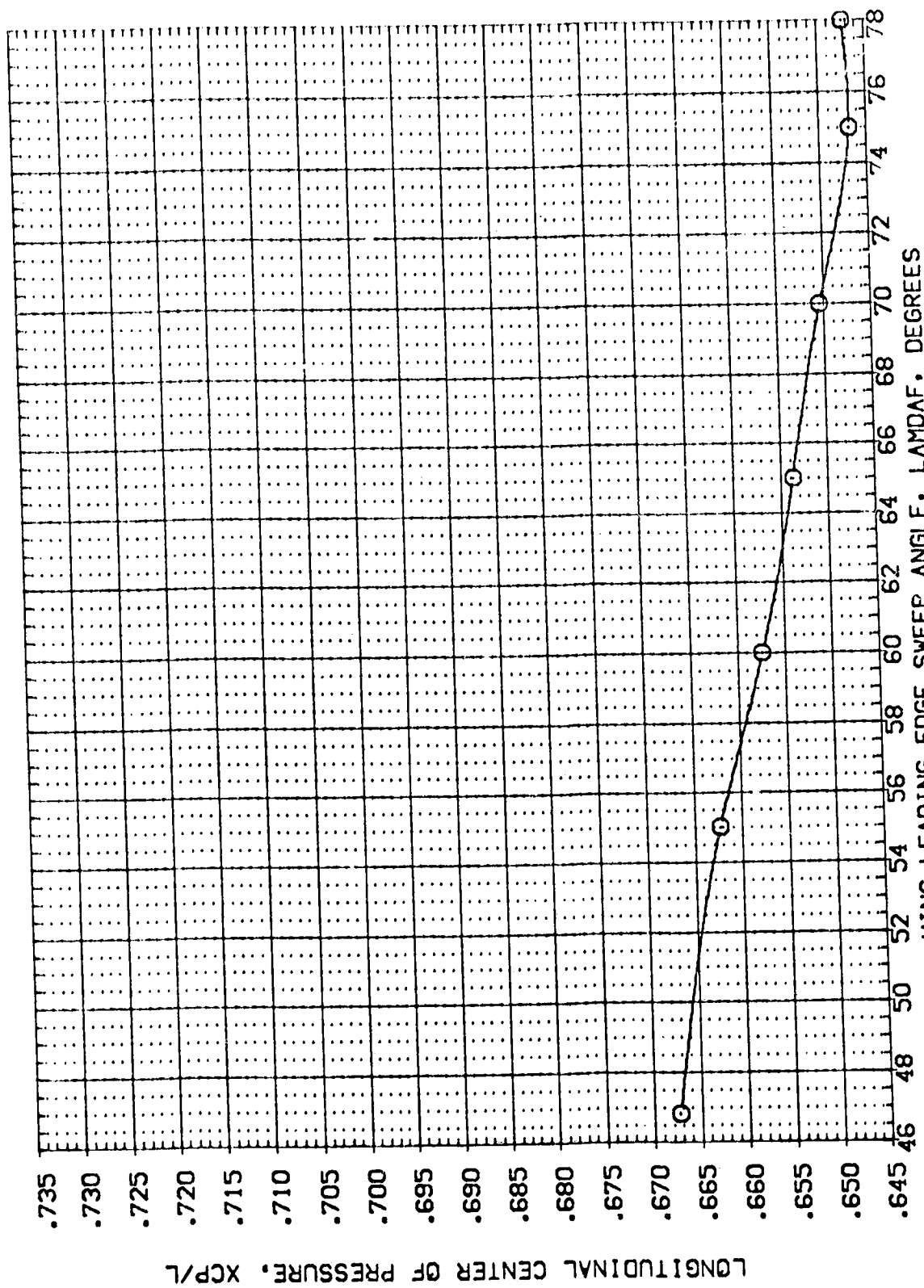
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	16.000	WING	BETA	CP5008	SCALING
		WING	ELEVTR	CP5009	INCHES
		BOFLAP	RUCFLR	CP5010	INCHES
				CP5011	INCHES
				CP5012	INCHES
				CP5013	INCHES
				CP5014	INCHES
				CP5015	INCHES
				CP5016	INCHES
				CP5017	INCHES
				CP5018	INCHES
				CP5019	INCHES
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				CP5021	INCHES
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				CP5117	INCHES
				CP5118	INCHES
				CP5119	INCHES
				CP5120	INCHES
				CP5121	INCHES
				CP5122	INCHES
				CP5123	INCHES
				CP5124	INCHES
				CP5125	INCHES
				CP5126	INCHES
				CP5127	INCHES
				CP5128	INCHES
				CP5129	INCHES
				CP5130	INCHES
				CP5131	INCHES
				CP5132	INCHES
				CP5133	INCHES
				CP5134	INCHES
				CP5135	INCHES
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				CP5137	INCHES
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				CP5189	INCHES
				CP5190	INCHES
				CP5191	INCHES
				CP5192	INCHES
				CP5193	INCHES
				CP5194	INCHES
				CP5195	INCHES
				CP5196	INCHES
				CP5197	INCHES
				CP5198	INCHES
				CP5199	INCHES
				CP5200	INCHES



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

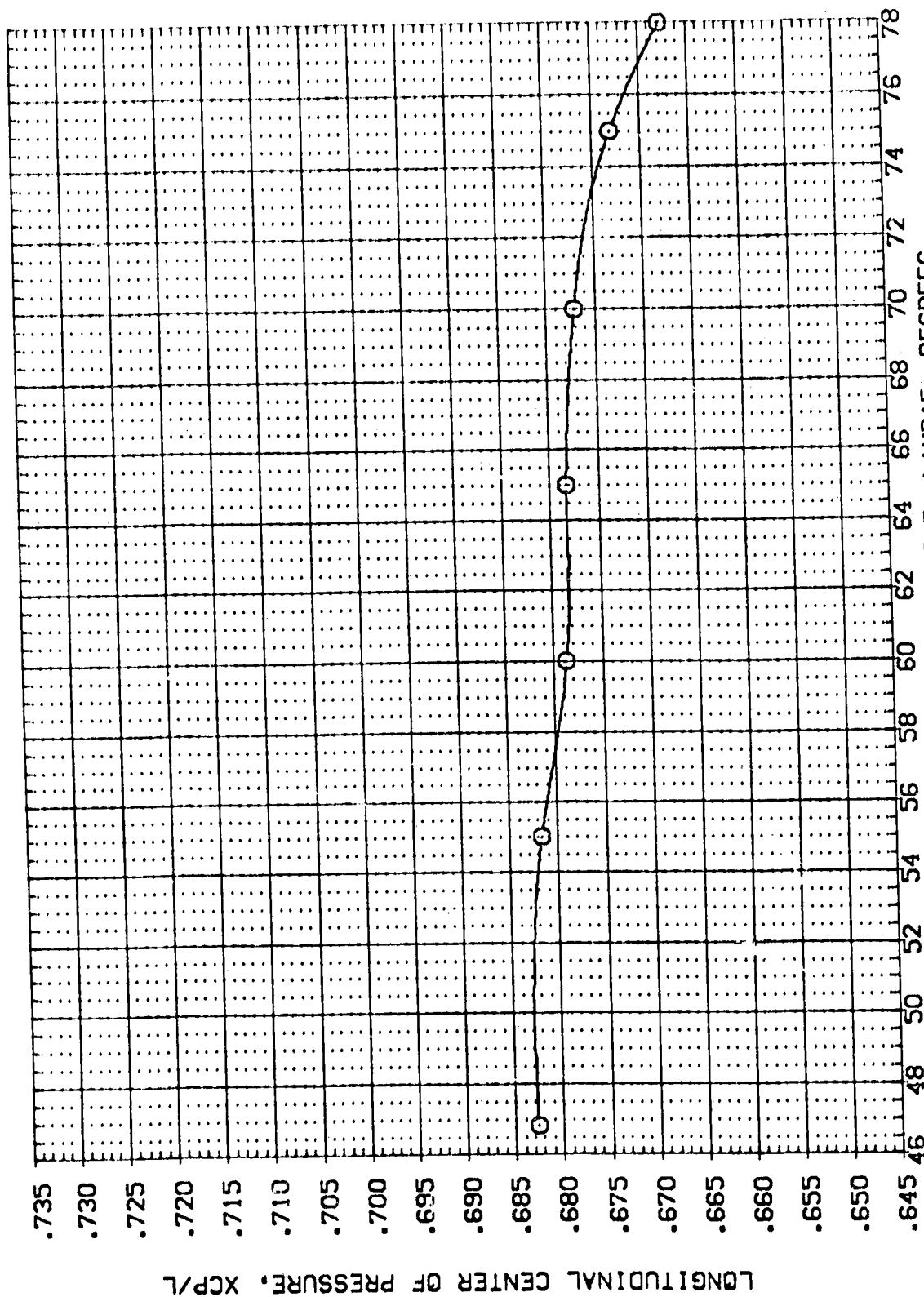
PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
SYMBOL	ALPHA	MACH	WING	BOFLAP	.000	DATASET	LAMDAF	LAMDAF	SREF	LREF	BREF
○	20.000	2.000	ELEVTR	RUDFLR	.000	CP5007	46.800	55.000	171.4720	25.5100	20.3557
		.000			.000	CP5009	60.000	65.000			16.8533
					.000	CP5011	70.000	75.000			.0000
						CP5013	78.000				.0000
											SCALE
											.0188



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB)(CP5007)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	.000	DATASET	LAMDAF	DATA SOURCE	DATASET	LAMDAF	SREF	REFERENCE INFORMATION
○	8.000	WINGED	.900 BETA	.000	CP5007	46.800	CP5008	55.000	55.000	171.4720	SG-IN:
		BOFLAP	2.000 ELEVTR	.000	CP5009	60.000	CP5010	65.000	20.3597	25.5100	INCHES
			.000 RJDFLR	.000	CP5011	70.000	CP5012	75.000	16.8533	20.3597	INCHES
					CP5013	78.000			.0000	.0000	INCHES
									.0000	.0000	INCHES
									.0000	.0000	SCALE
									.0000	.0000	SCALE

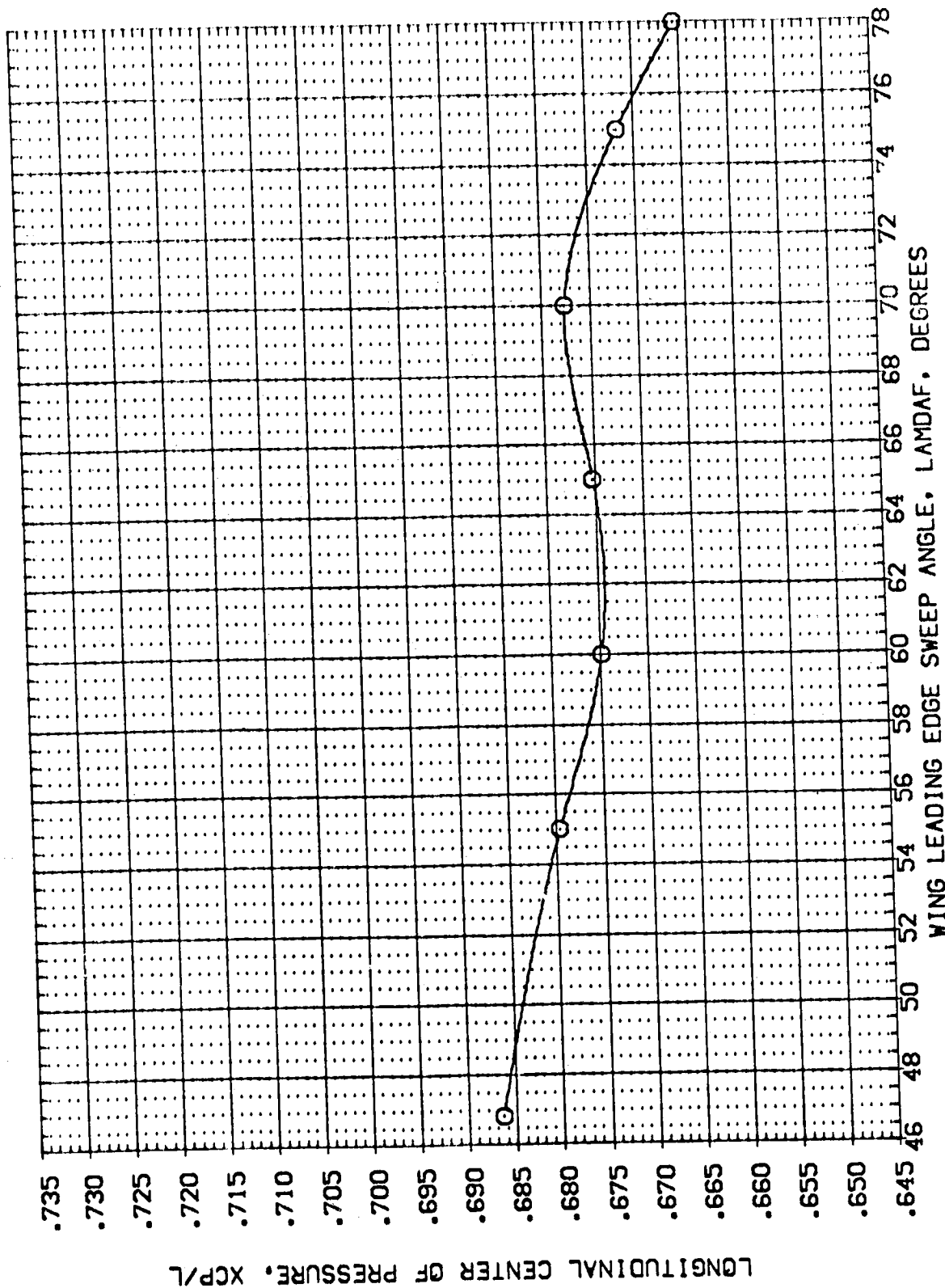


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP50007)

SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	ELEVTR	DATA SET	LAMDAF	DATASET	LAMDAF	SREF	SCALE
O	16.000	WING	.500	2.000	.000	46.800	CP5007	55.000	171.4720	50. IN.
		BOFLAP	.000	.000	.000	60.000	CP5009	63.000	20.3597	INCHES
					.000	70.000	CP5011	75.000	15.8633	INCHES
						78.000	CP5013		.0000	INCHES
									.0000	SCALE
									.0188	

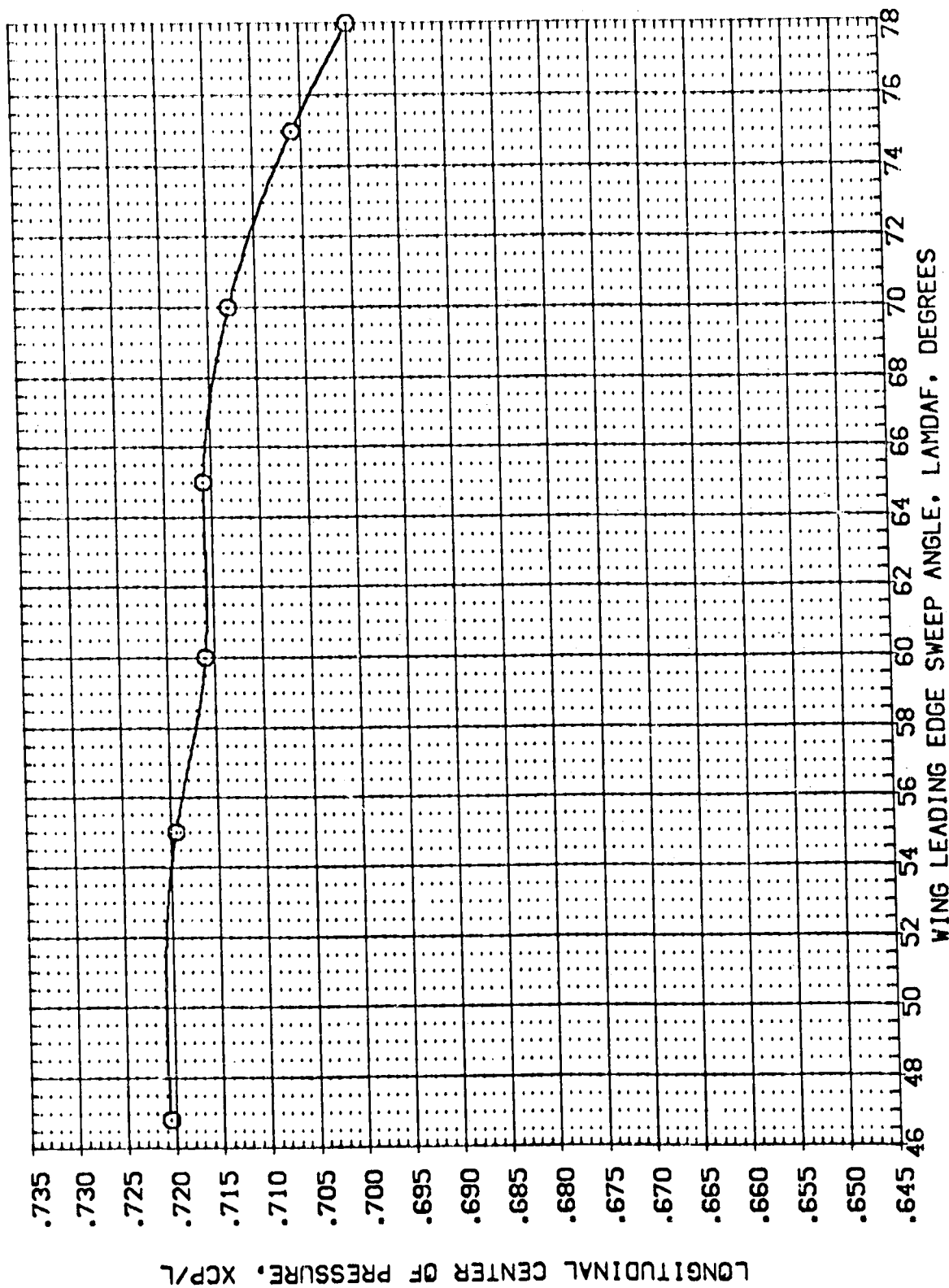


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	BETA	DATASET	LAMDAF	SREF	SCALE
O	8.000	.980	.000	45.800	171.4720	50.188
		2.000	.000	60.000	25.5100	20.3557
		.000	.000	70.000	15.8633	.0000
			.000	78.000	.0000	.0000



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 LG-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL
O

ALPHA
16.000

MACH
WING
BOFLAP

PARAMETRIC VALUES
.980 BETA
2.000 ELEVTR
.000 RUOFLR

.000 DATASET
.000 CP5007
.000 CP5008
.000 CP5011
CP5013

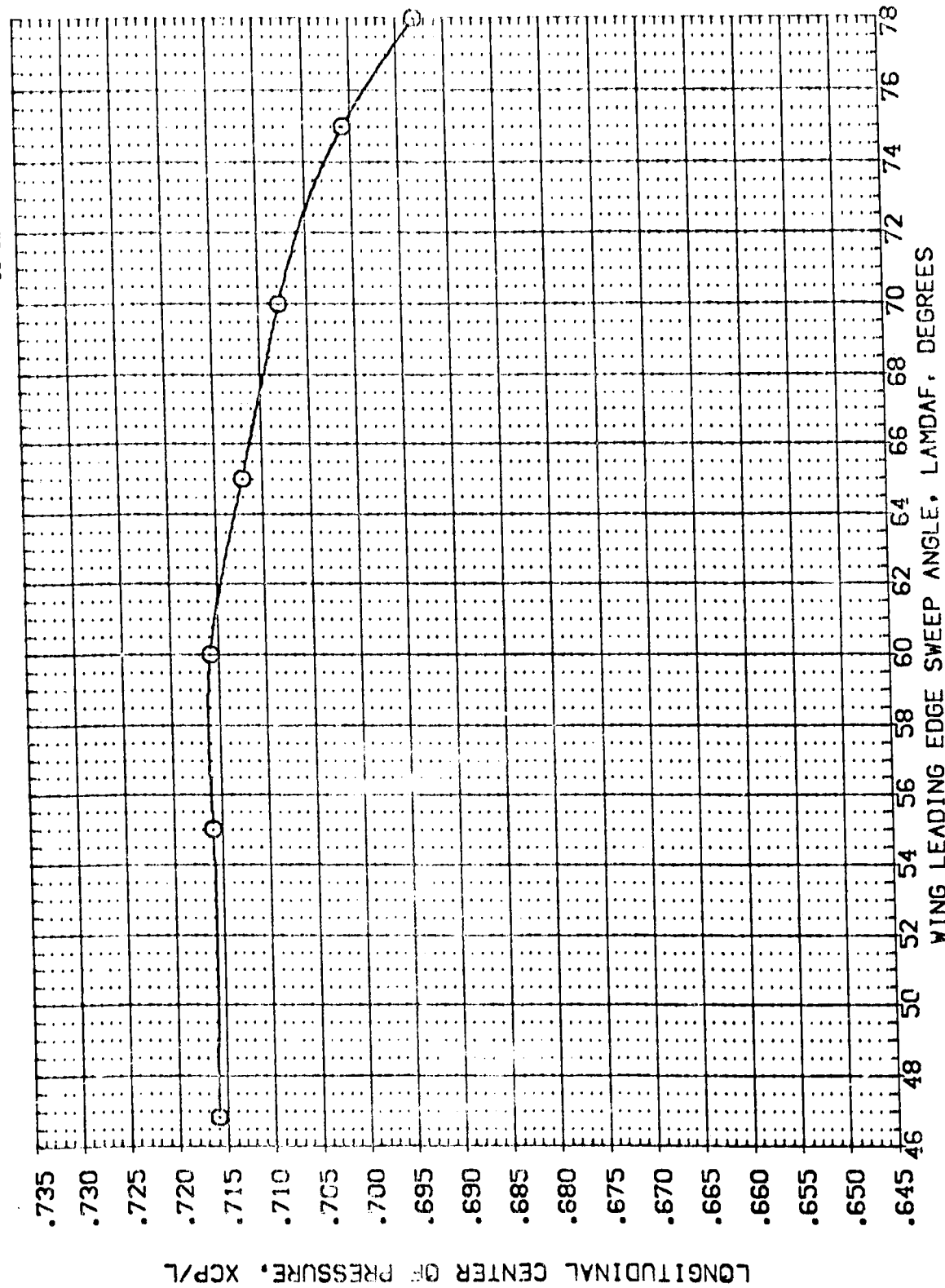
DATA SOURCE
LAMDAF 46.800
60.000
70.000
78.000

LAMDAF
55.000
65.000
75.000

DATA SET
CP5008
CP5010
CP5012

REF LREF
55.000
65.000
75.000

REFERENCE INFORMATION
171.4720
25.5100
20.3597
16.5633
.0000
.0000
SCALE .0188

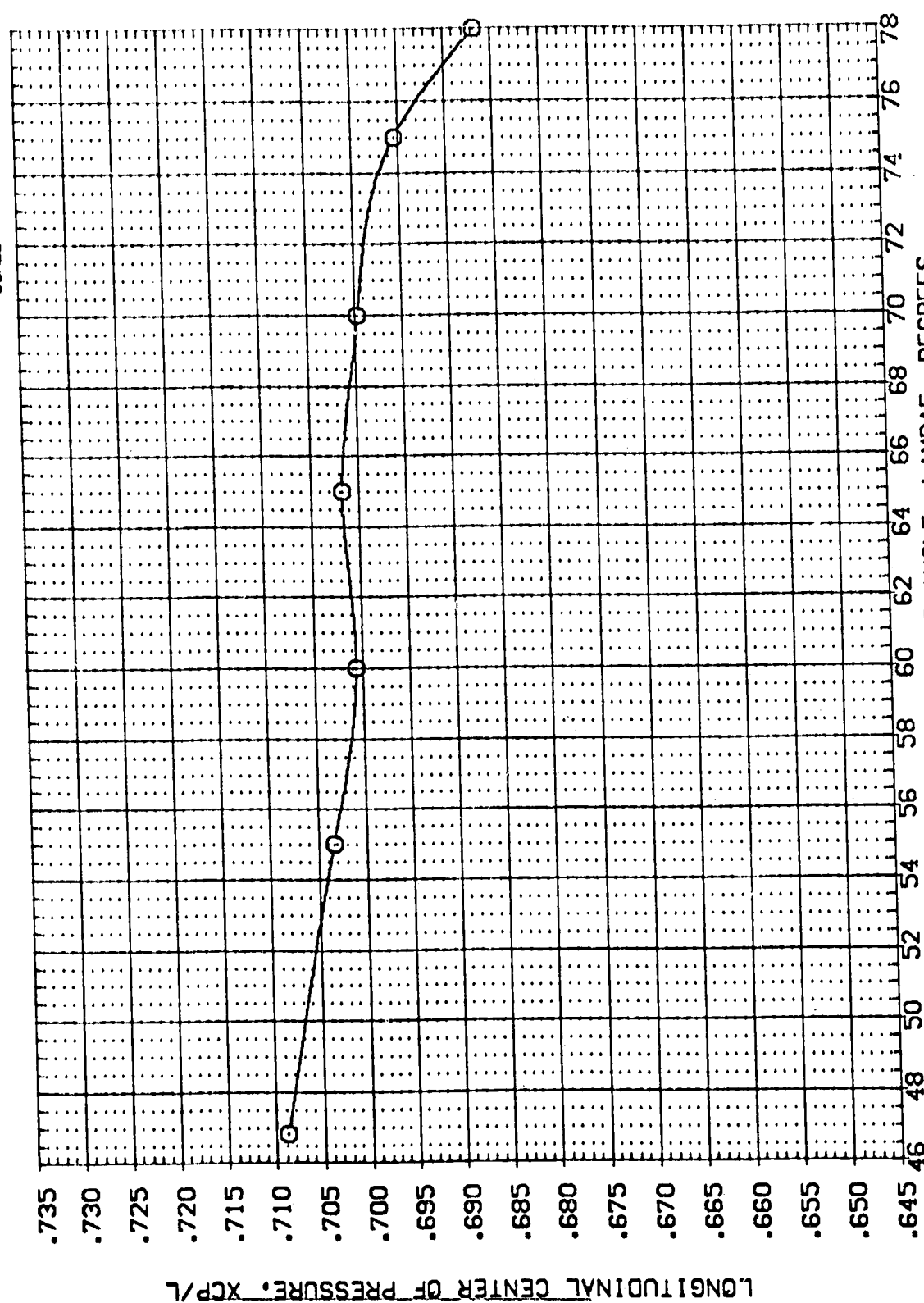


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
	ALPHA	MACH	DATASET	LAMDAF	SREF	SCALE
O	20.000	VINGNO	.000	46.800	55.000	171.4720
		BOFLAP	.000	60.000	65.000	25.5100
			.000	70.000	75.000	20.3557
				78.000		16.8633
						.0000
						.0188



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT IPT 644 LO-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

SYMBOL ALPHA 8.000 MACH 1.200 BETA 2.000 ELEVTR .000 RUFLR .000

DATA SOURCE DATASET CP5008 CP5010 CP5012

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

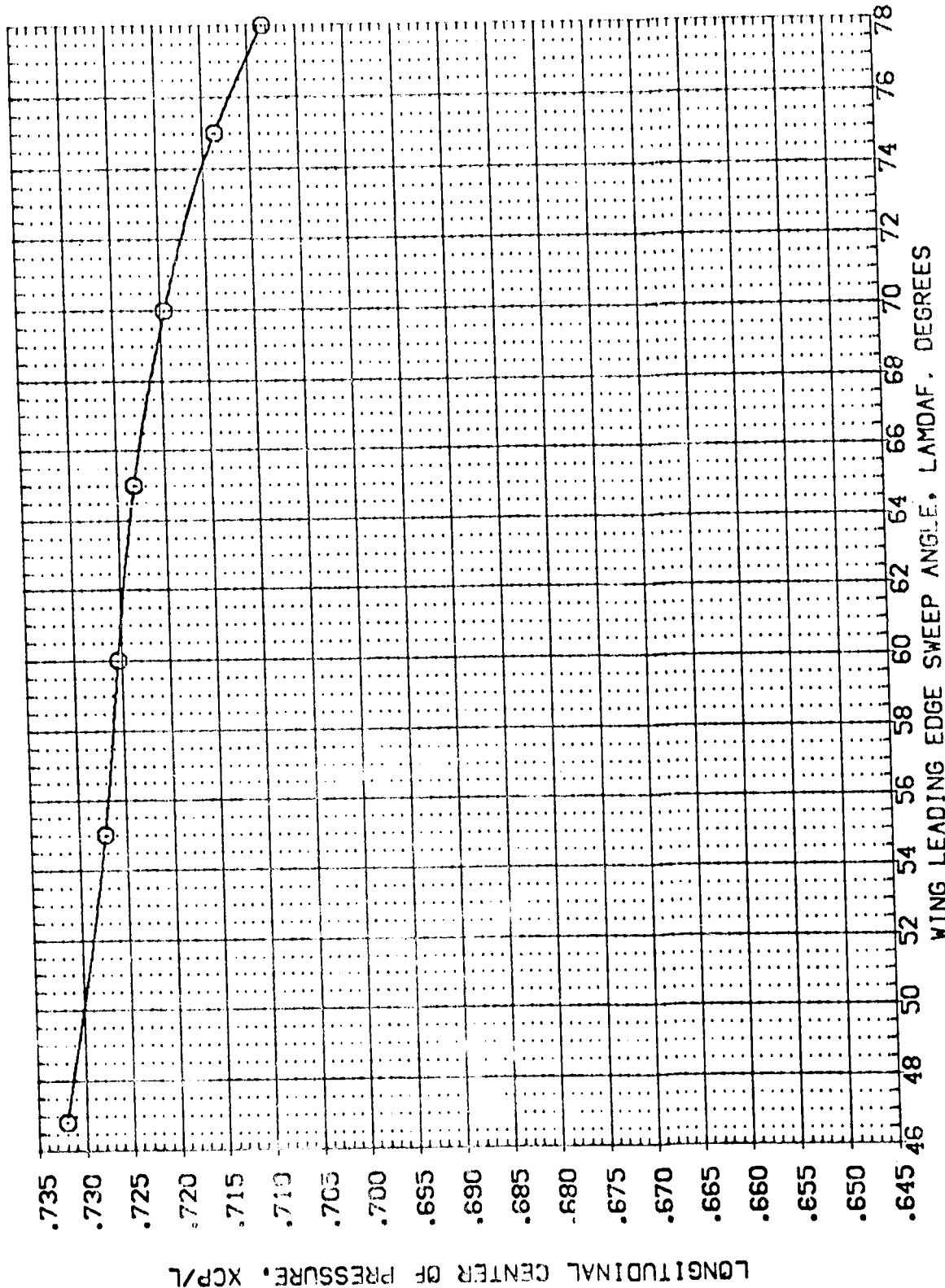
DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

DATA SOURCE DATASET CP5007 CP5009 CP5011 CP5013

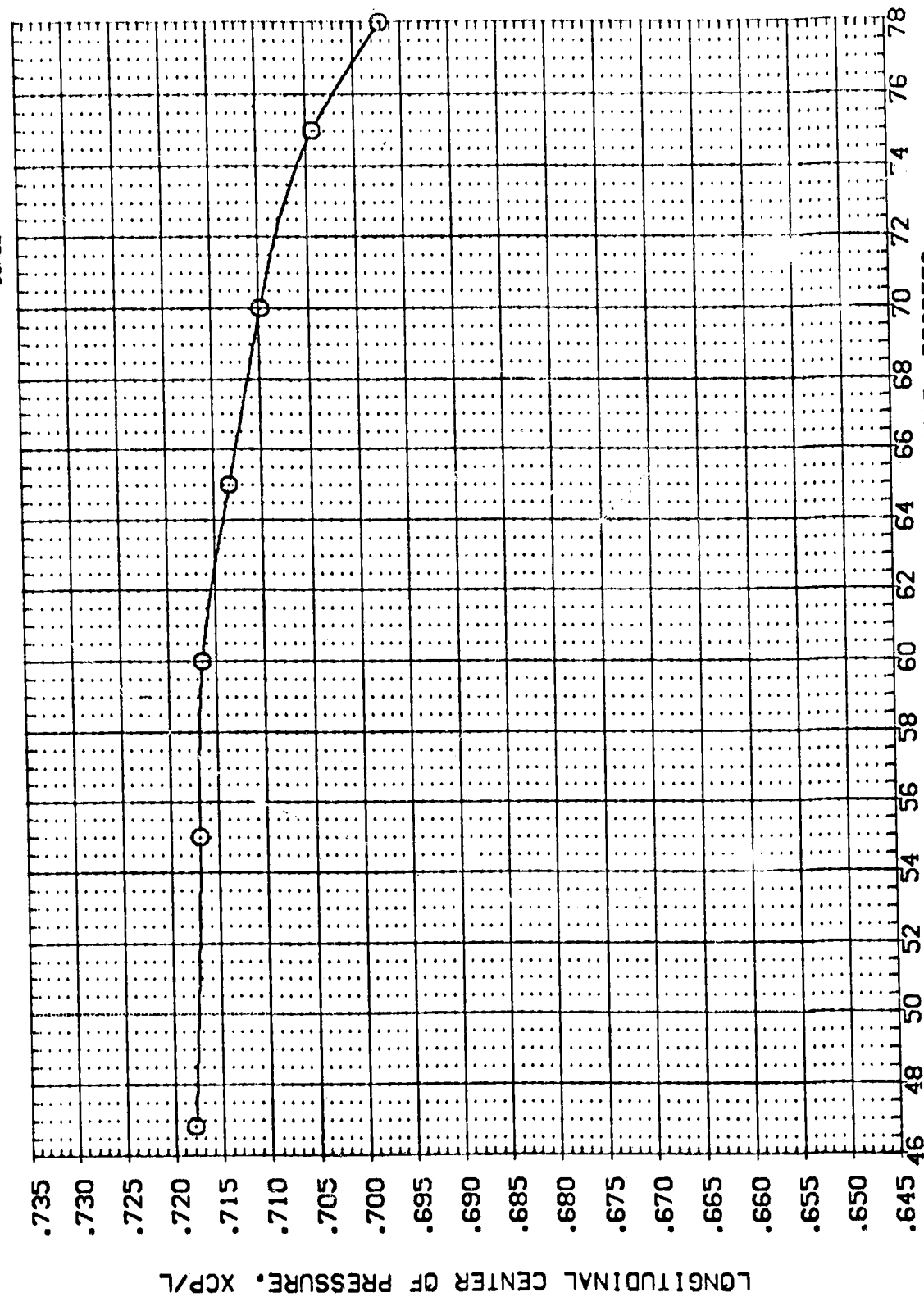


CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB) (CP5007)

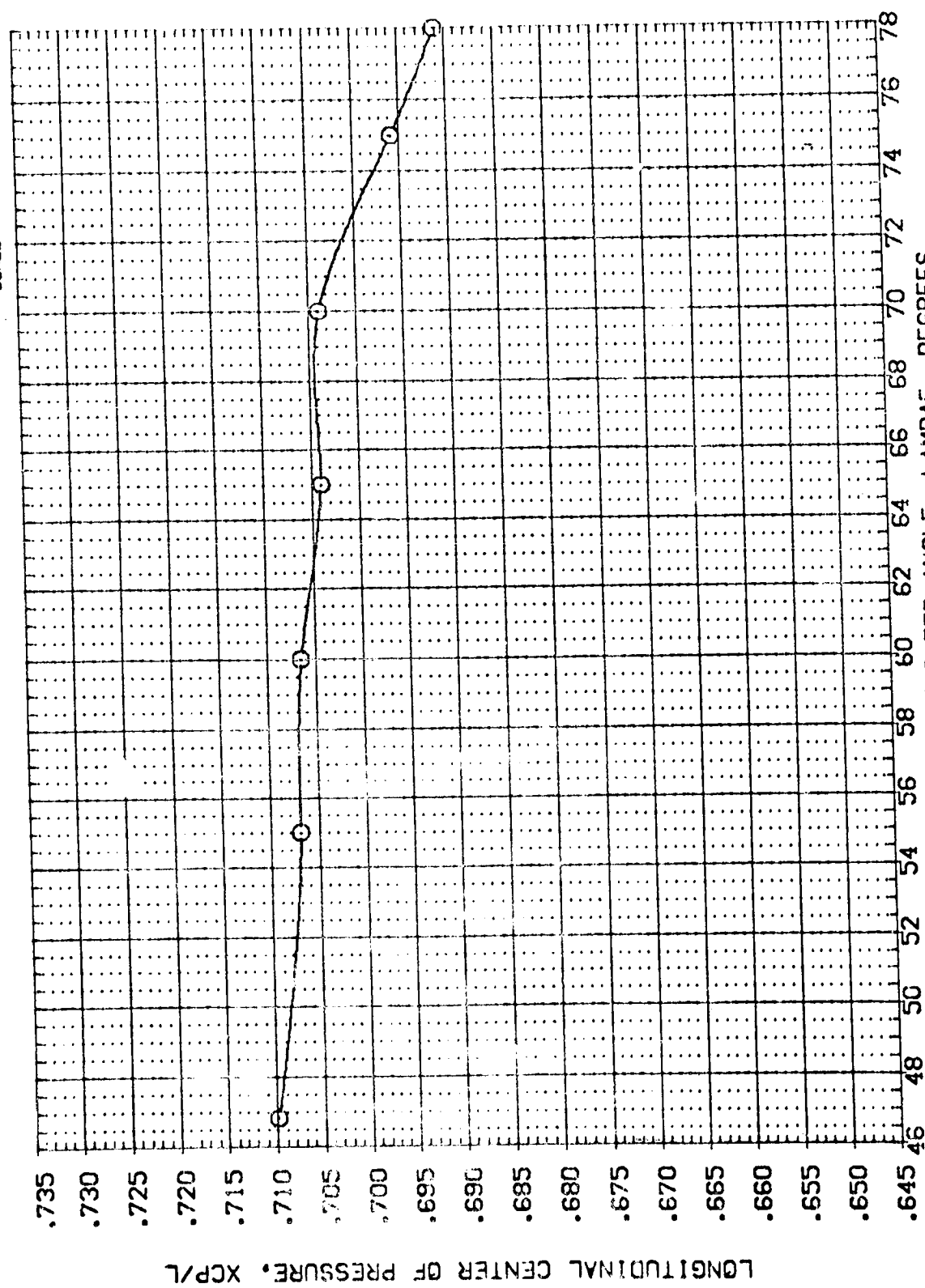
SYMBOL	ALPHA	MACH	VINGNO	BOFLAP	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
					BETA	ELEVTR	RUEFLR	.000	DATASET	LAMDAF	DATASET	LAMDAF	SREF
○	16.000				1.200			.000	CP5007	46.800	CP5008	55.000	171.4720
					2.000			.000	CP5009	60.000	CP5010	65.000	25.5100
					.000			.000	CP5011	70.000	CP5012	75.000	20.5597
									CP5013	78.000			16.8633
													.0000
													.0000
													.0188
													SCALE



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW2VFB)(CP5007)

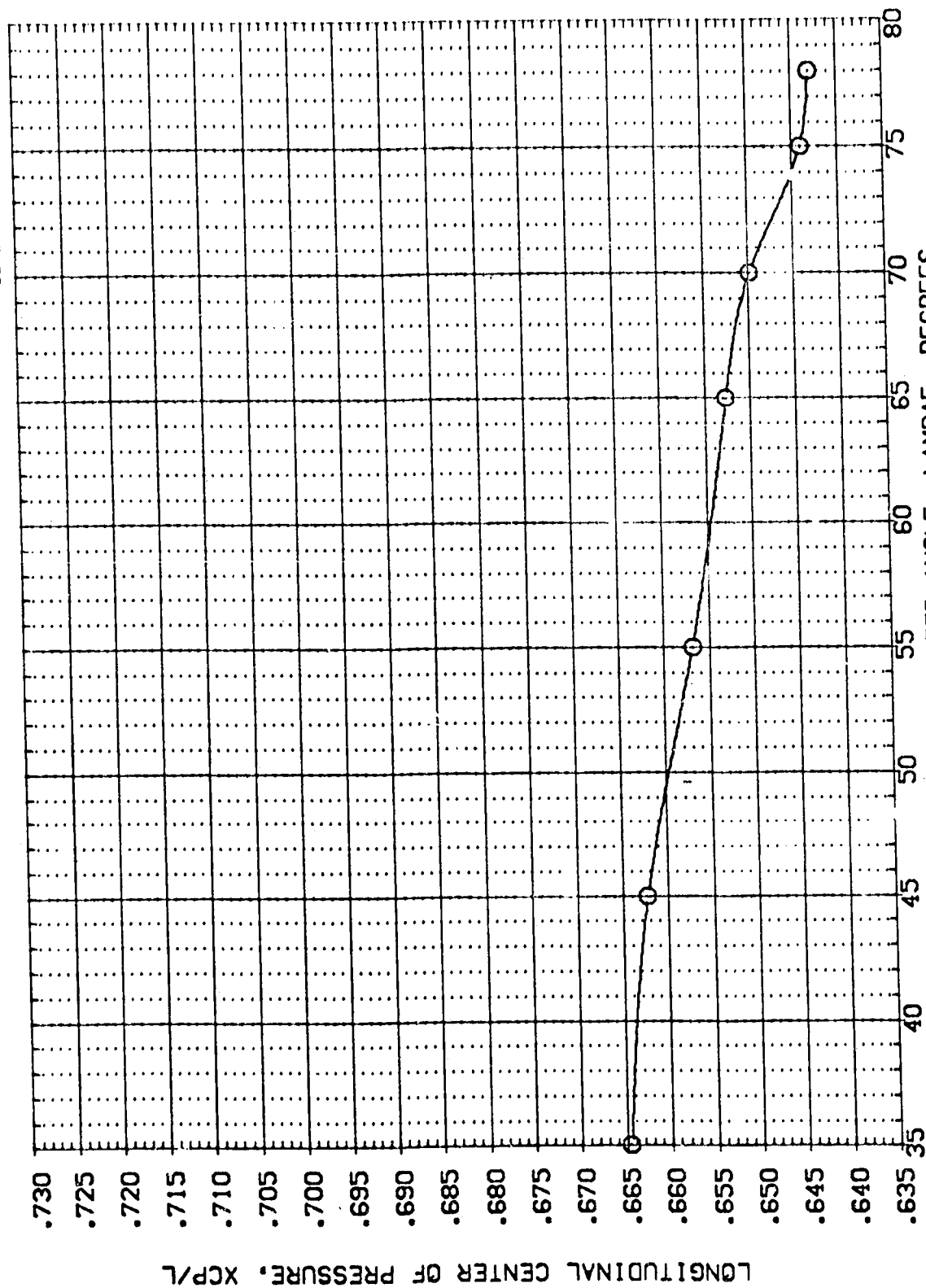
SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION		
		MACH	BETA	ELEVTR	DATASET	LAMDAF	DATASET	LAMDAF	SREF	50 IN.
○	20.000	1.200	2.000	ELEVTR	.000	46.800	CP5007	55.000	171.4720	INCHES
		WING		R/OFLR	.000	60.000	CP5009	65.000	20.3597	INCHES
		BOFLAP			.000	70.000	CP5010	75.000	16.8633	INCHES
						78.000	CP5011		.0000	INCHES
							CP5013		.0000	INCHES
									.0189	SCALE



CENTER OF PRESSURE FOR W-33 WING (B W2 V FB)

LARC 8-FT TPT 844 L0-100 ORBITER(SHIPS) (BW3VFB)(CP5016)

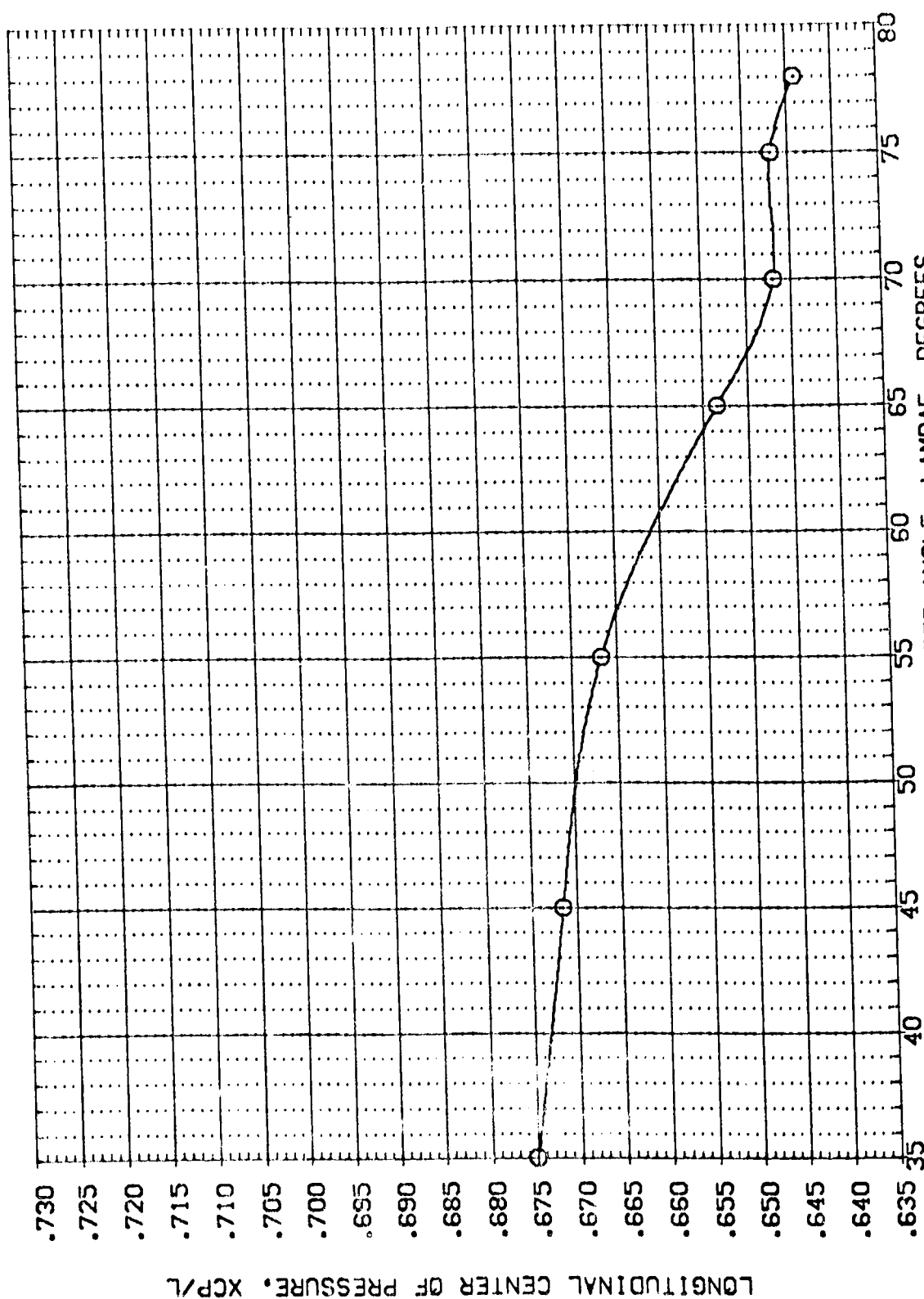
SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION			
		MACH	BETA	ELEVTR	DATA SET	LAMDAF	DATASET	LAMDAF	SREF	SCALE
○	8.000	3.000	.350	.000	CP5016	35.000	CP5017	45.000	LREF	173.1312
		BOFLAP	RUOFLR		CP5018	55.000	CP5019	65.000	BREF	25.5100
					CP5020	70.000	CP5021	75.000	YMRP	20.9095
					CP5022	78.000			YMRP	16.8633
									ZMRP	.0000
									ZMRP	.0000
									SCALE	.0188



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

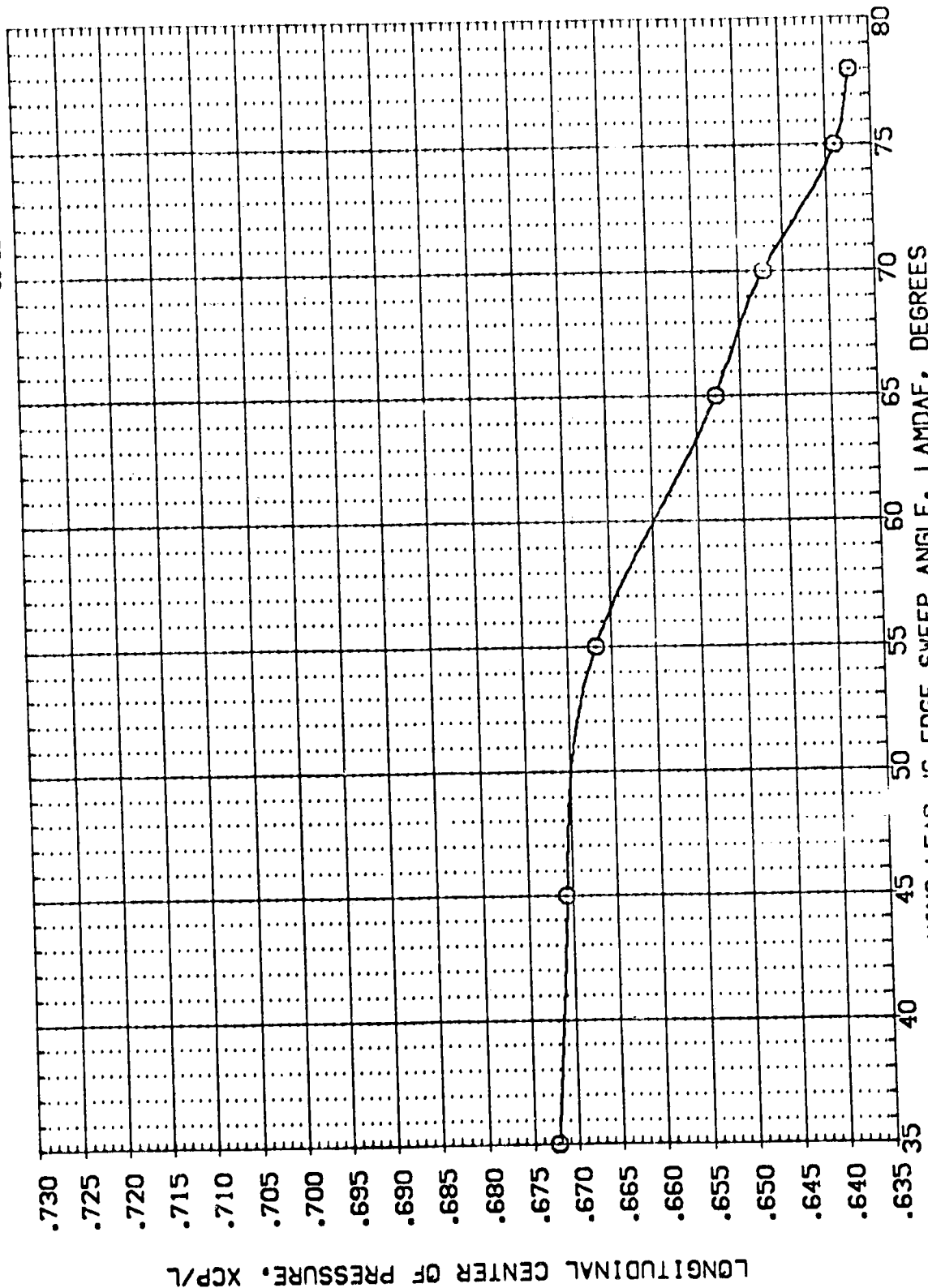
SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION										
			WING	BOFLAP	BETA	ELEVTR	RUDFLR	.000	DATASET	LAMDAF	SREF	SO IN: INCHES	INCHES	INCHES	INCHES	INCHES	SCALE	
○	15.000				.350			.000	DATASET	LAMDAF	SREF	173.1312	25.5100	20.9056	16.8633	.0000	.0000	.0188
					3.000			.000	CP5016	45.000	LREF							
								.000	CP5018	65.000	BREF							
					.000			.000	CP5020	75.000	YREF							
								.000	CP5022		ZREF							
											SCALE							



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

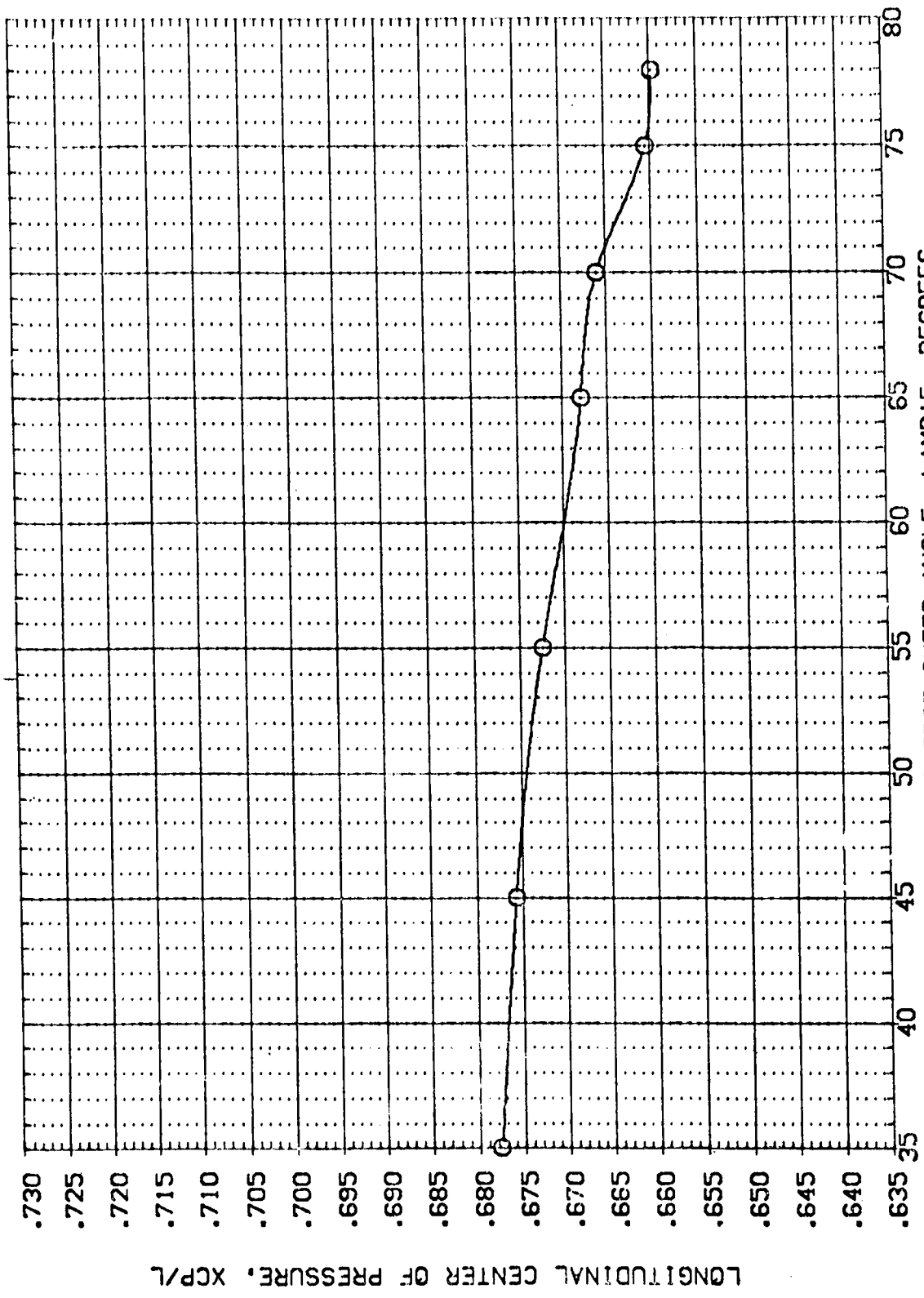
PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
SYMBOL	ALPHA	MACH	DATA SET	DATA SET	SCALE
O	20.000	VINGNO	CP5016	CP5017	173.1312
		BOFLAP	CP5018	CP5019	25.5100
			CP5020	CP5021	20.9256
			CP5022		16.5633
					.0000
					.0000
					.0188



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION				
			.800	BETA		.000	DATASET	LAMDAF	DATASET	LAMDAF	SREF	SO IN.	SCALE
○	8.000	VINGND	3.000	ELEVTR		.000	CP5016	45.000	CP5017	45.000	LREF	25.5100	INCHES
		BOXLAP	.000	RUDFLR		.000	CP5018	65.000	CP5019	65.000	BREF	20.9096	INCHES
						.000	CP5020	70.000	CP5021	75.000	XPRP	16.8633	INCHES
							CP5022	78.000			YPRP	.0000	INCHES
											ZPRP	.0000	INCHES
											SCALE	.0188	SCALE

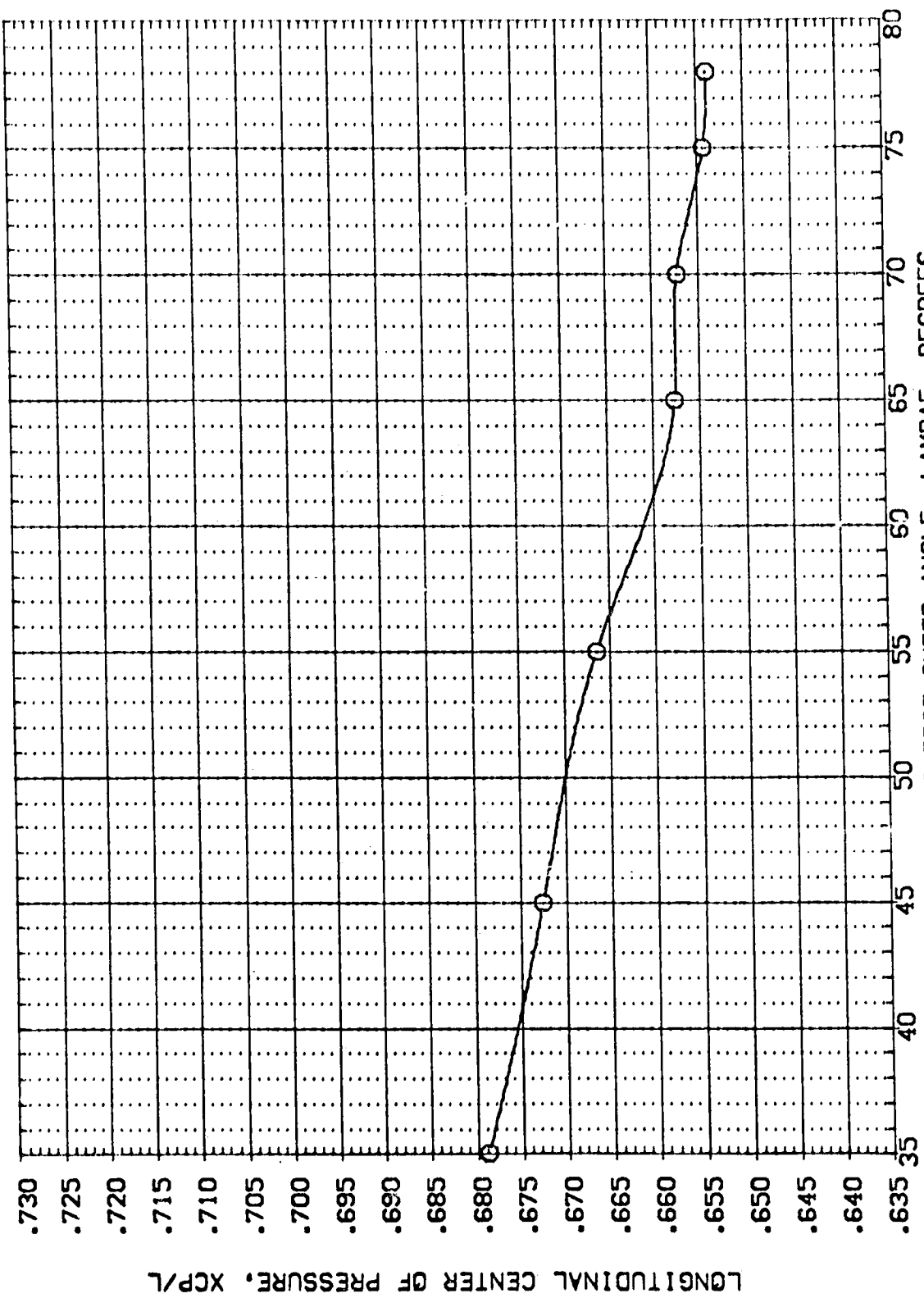


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 L3-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

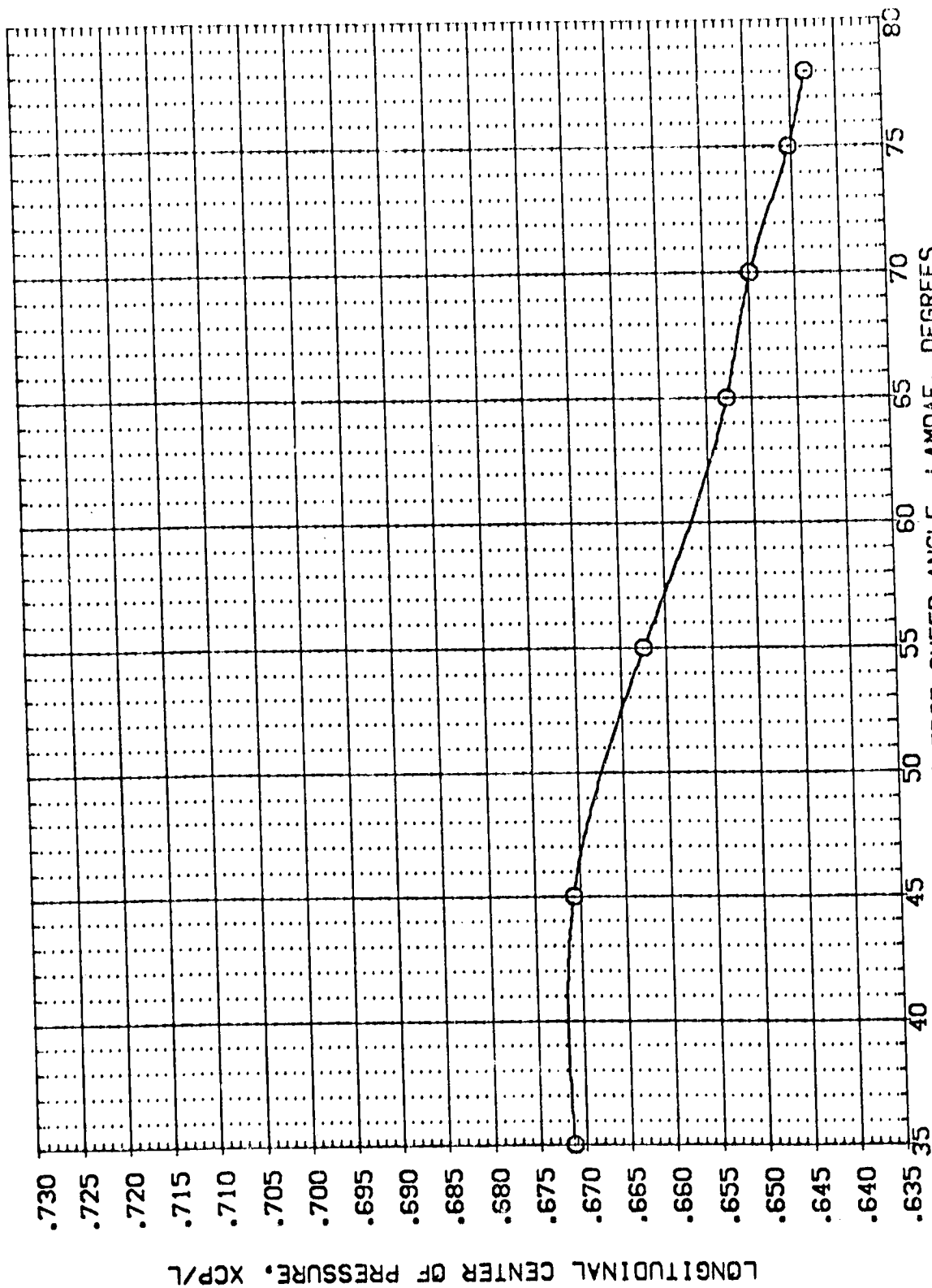
SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	ELEVTR	DATA SET	LAMDAF	DATA SET	LAMDAF	SREF	SC.IN.
0	16.000	WING	.800		.000	CP5016	.000	CP5017	25.5100	INCHES
		BOFLAP	3.000	RUEFLR	.000	CP5018	.000	CP5019	20.9096	INCHES
			.000		.000	CP5020	.000	CP5021	16.8633	INCHES
						CP5022	.000		.0000	INCHES
									.0000	INCHES
									.0000	SCALE
									.0188	



CENTER OF PRESSURE FOR MSC-0.9 WING (B W3 V FB)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
SYMBOL	ALPHA	MACH	BETA	DATA SET	LAMDAF	DATA SET	LAMDAF	SREF	SO IN.
O	20.000	WING	ELEVTR	.000	CP5016	CP5017	45.000	REF	173.1312
		BOFLAP	RUEFLR	.000	CP5018	CP5019	65.000	REF	25.5100
				.000	CP5020	CP5021	75.000	REF	20.9056
					CP5022			REF	16.8633
								REF	.0000
								REF	.0000
								REF	.0188
								REF	SCALE

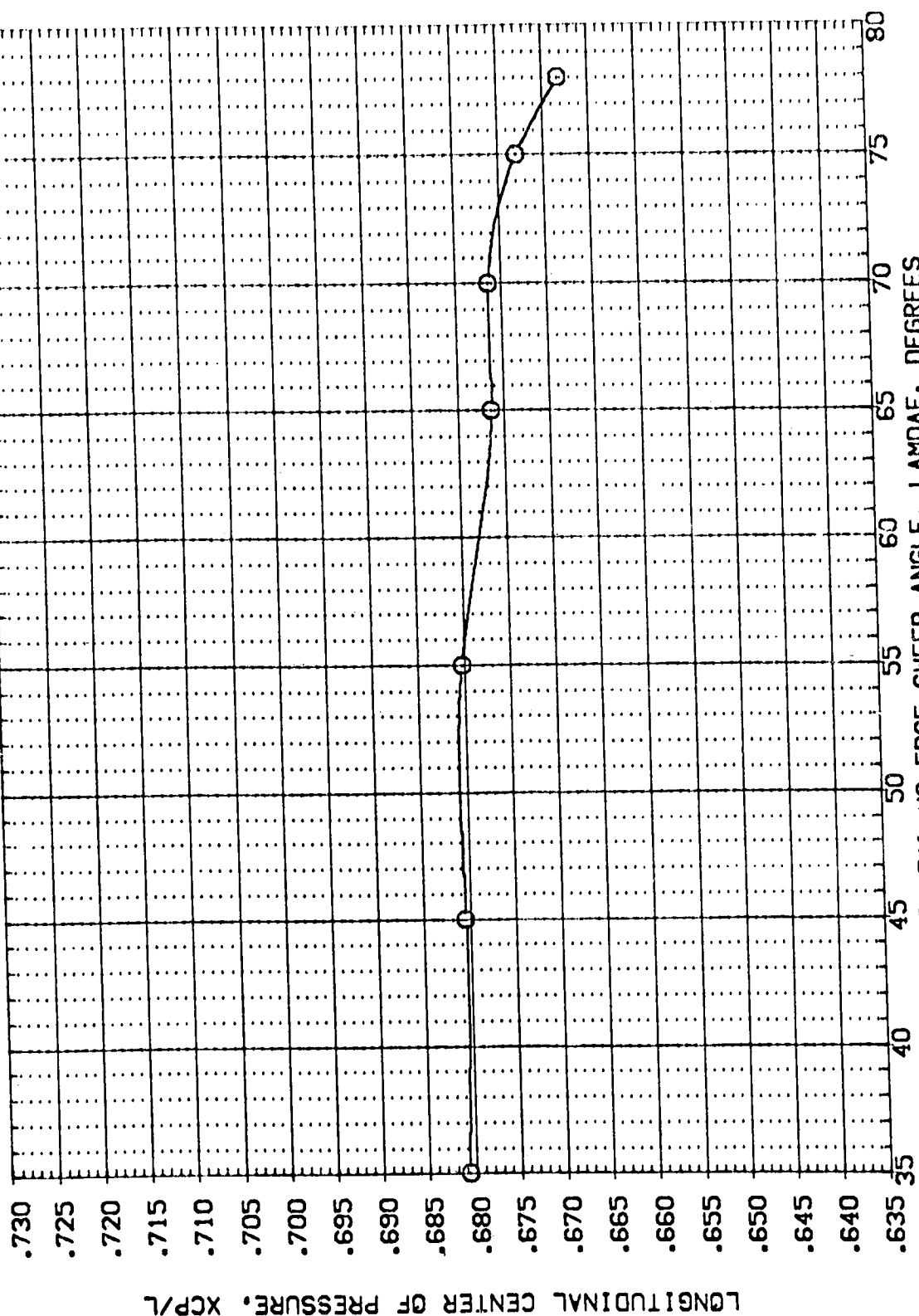


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

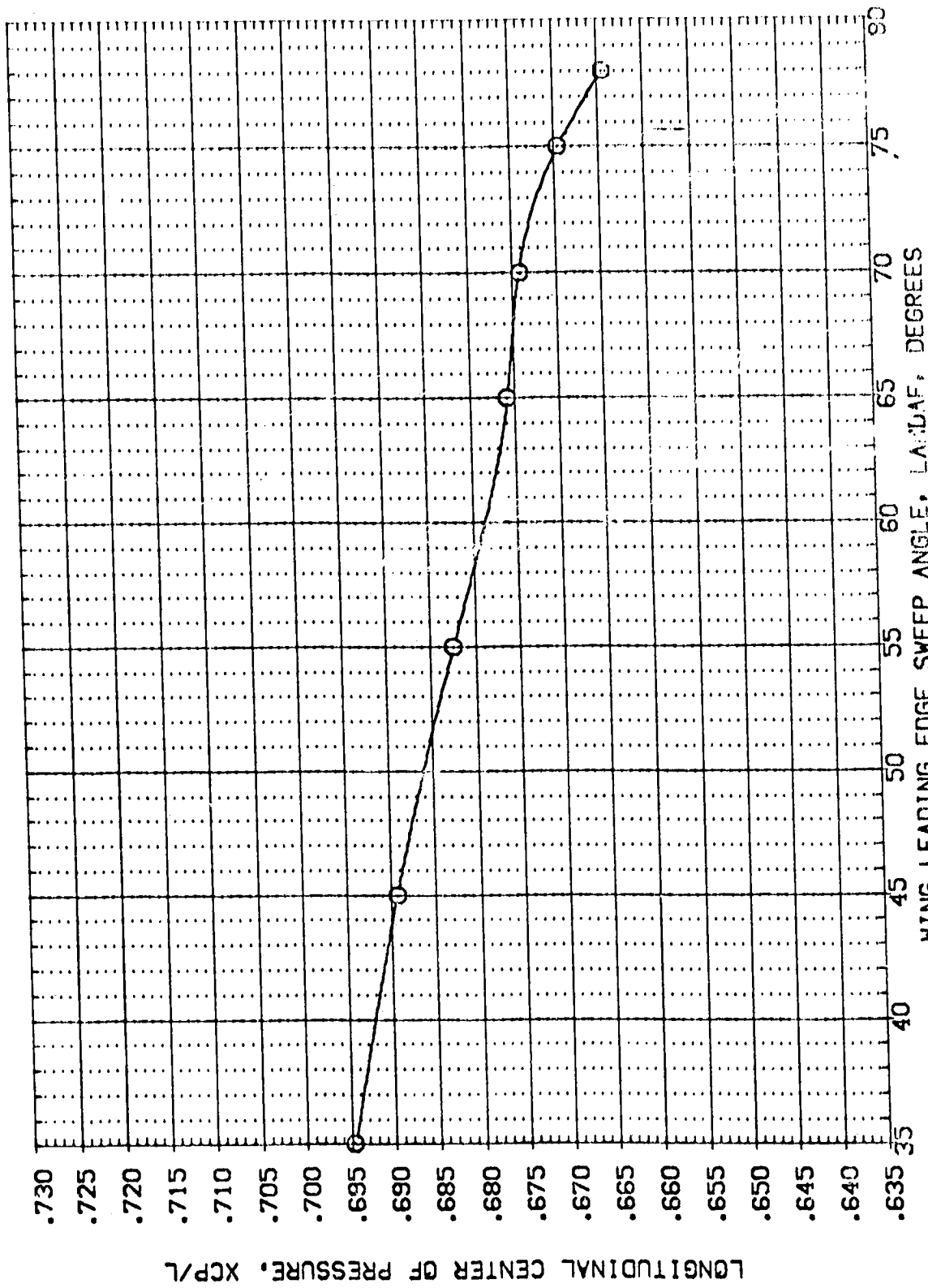
SYMBOL	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	.000	DATASET	LAMDAF	SREF	SCALE	SCALE
O	8.000	VINGAB	3.000	.000	CP5016	45.000	LREF	173.1312	INCHES
		BOFLAP	.000	.000	CP5018	65.000	BREF	25.5100	INCHES
				.000	CP5020	75.000	XREF	20.5096	INCHES
					CP5022	78.000	YREF	16.5533	INCHES
							ZREF	.0000	INCHES
							SCALE	.0188	SCALE



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION				
			.900	BETA		.000	DATASET	LAMDAF	DATASET	LAMDAF	SREF	173.1312	50.1N
○	16.000	WING	3.000	ELEVTR		.000	CP5016	35.000	CP5017	45.000	LREF	25.5100	NCES
		BOFLAP	.000	RUDFLR		.000	CP5018	55.000	CP5019	65.000	BREF	20.9095	NCES
						.000	CP5020	70.000	CP5021	75.000	YREF	15.8633	NCES
							CP5022	78.000			ZREF	.0000	NCES
											SCALE	.0188	SCALE

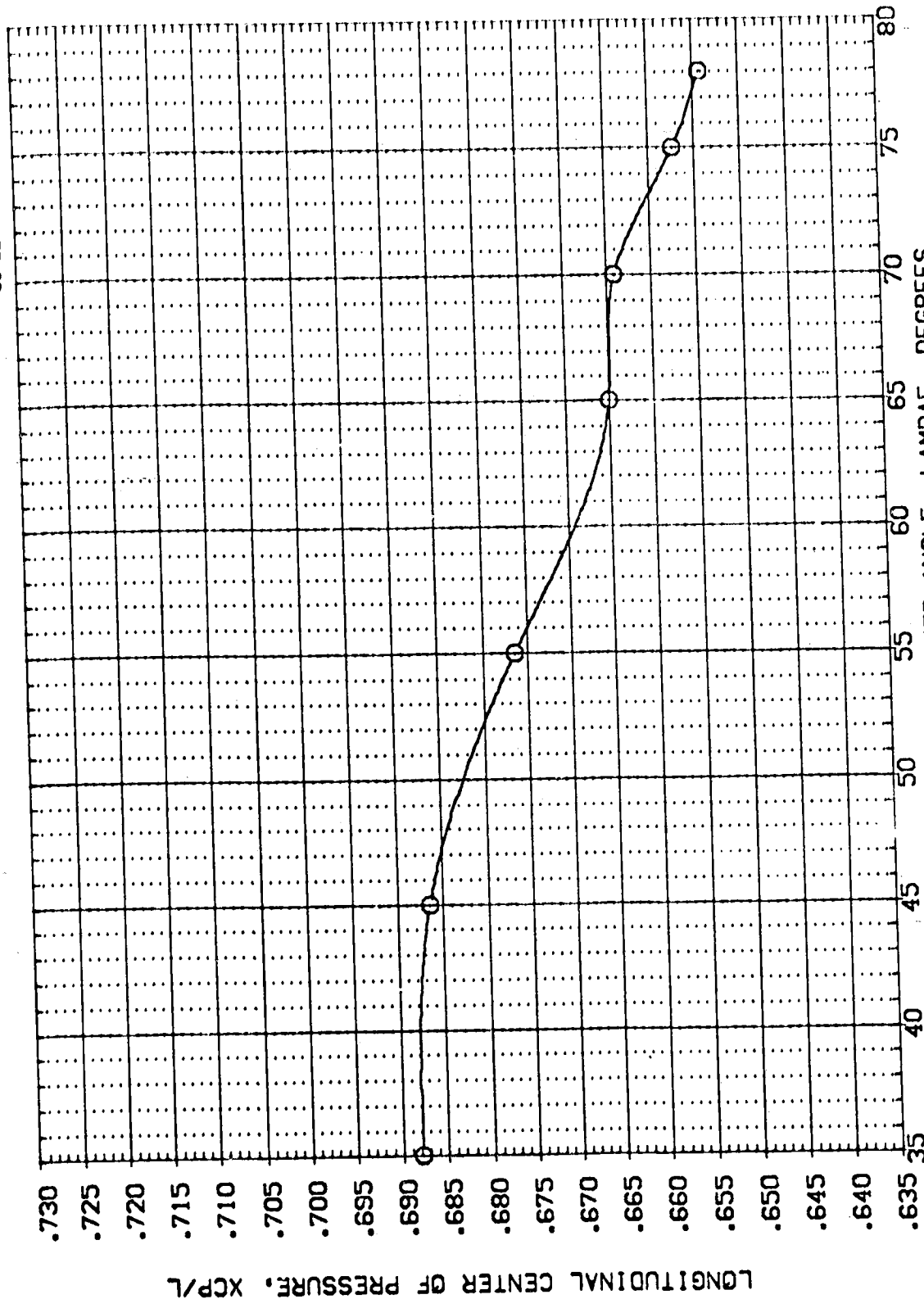


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



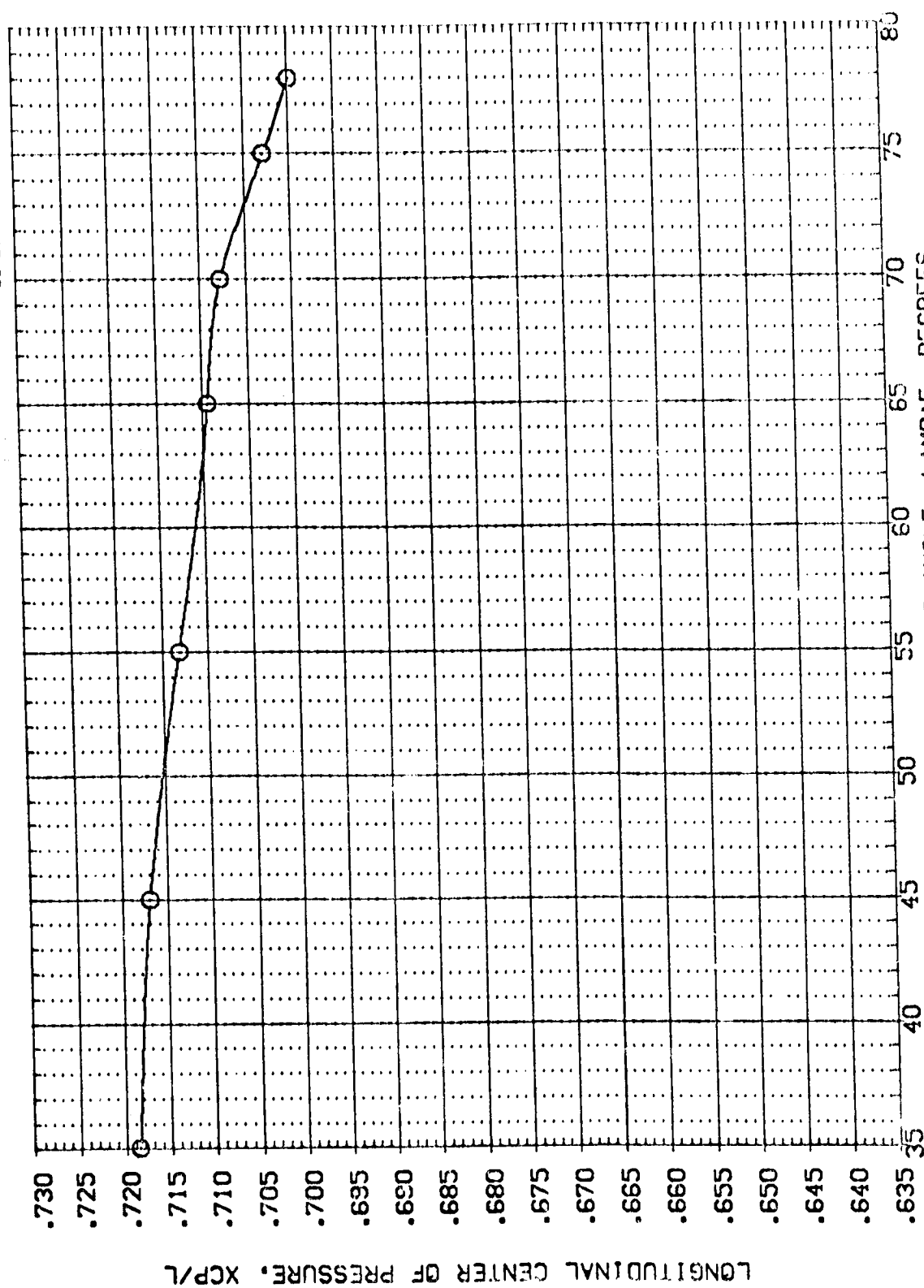
LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB)(CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE	REFERENCE INFORMATION		
			.900	BETA	.000		SPREF	173.1312	50.1N.
O	20.000	VINGNO BOFLAP	3.000	ELEVTR	.000	DATASET	LREF	25.5100	INCHES
							BREF	20.5033	INCHES
							YREF	15.8633	INCHES
							YREF	.0000	INCHES
							ZREF	.0000	INCHES
							SCALE	.0188	SCALE



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
O	8.000		.980 BETA	LAMDAF	SREF 173.1312 SQ. IN.
			3.000 ELEVTR	CP5017	LREF 25.5100 INCHES
			.000 ELEVFL	CP5019	BREF 20.5286 INCHES
			.000 RUOFLR	CP5021	XREF 15.8833 INCHES
				CP5020	YREF 10.0000 INCHES
				CP5022	ZREF 10.0000 INCHES
					SCALE .0188 INCHES

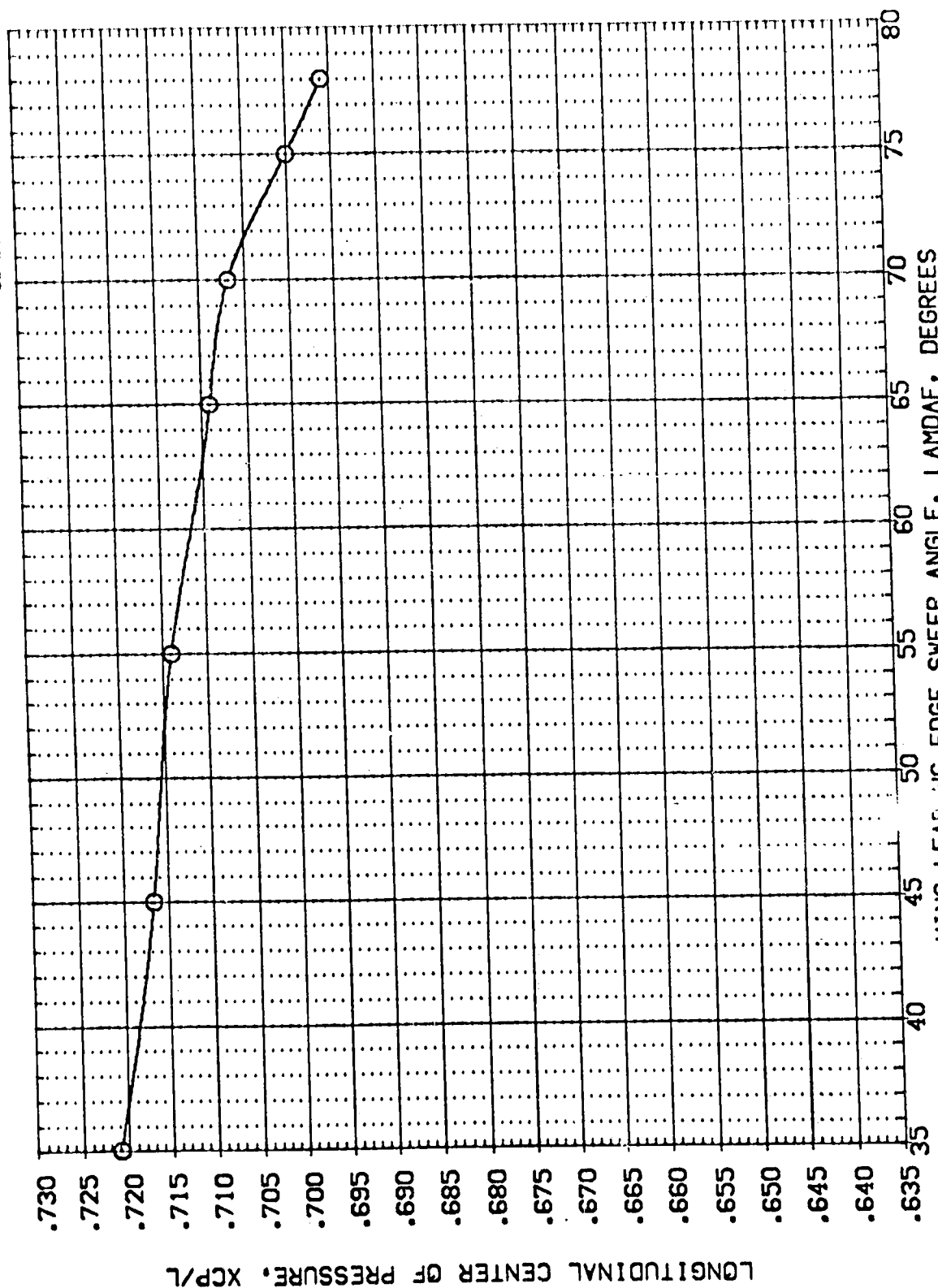


WING LEADING EDGE SWEEP ANGLE. LAMDAF. DEGREES

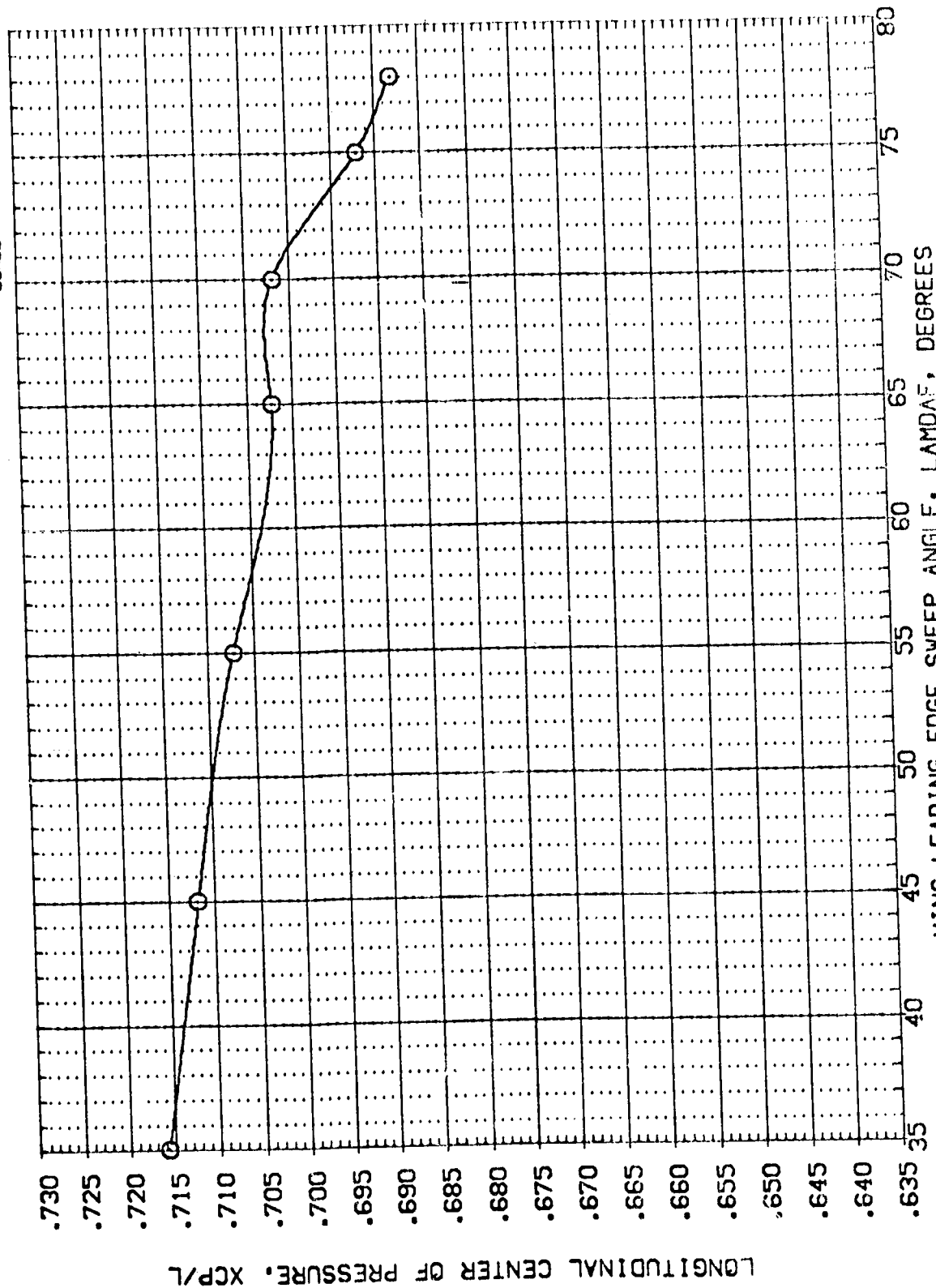
CENTER OF PRESSURE FOR MSC-049 WING (B #3 V.F.B)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION			
	ALPHA	MACH	BETA	DATASET	LAMDAF	DATASET	LAMDAF	SREF	SO-IN.
O	16.000		.980	.000	CP5016	CP5017	45.000	LREF	25.5100
		WING	ELEVTR	.000	CP5018	CP5019	65.000	BREF	22.9096
		BOFLAP	RUOFLR	.000	CP5020	CP5021	75.000	XMRP	16.8633
					CP5022			YMRP	.0000
								ZMRP	.0000
								SCALE	.0188



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

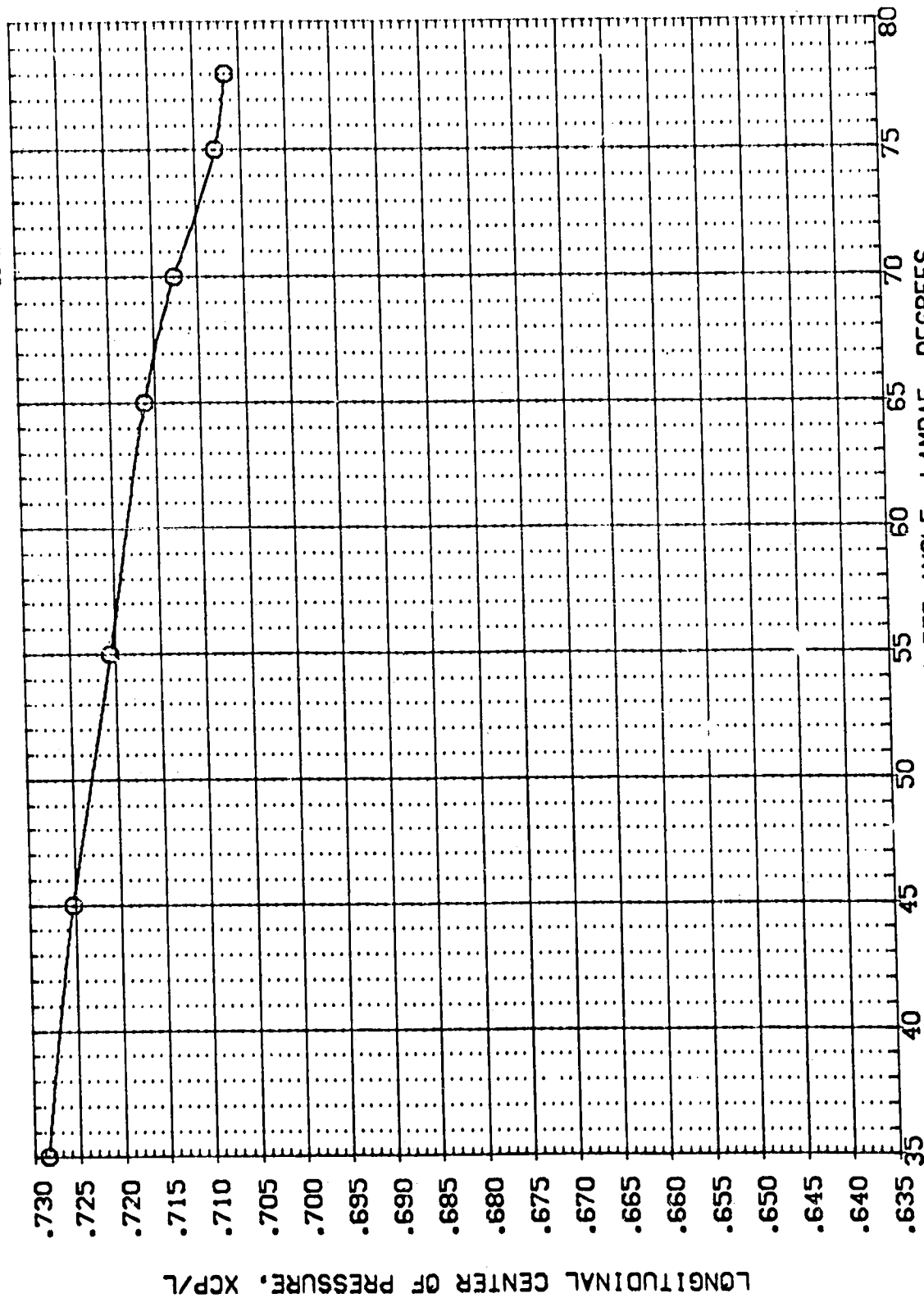
[illegible]

WING LEADING EDGE
CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 L0-10C ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE	REFERENCE INFORMATION			
			BETA	ELEVTR	RUOFLR		SRF	SRF	SRF	SCALE
O	8.000	VINGND BOFLAP	1.200			.000	CP5016	45.000	173.1312	INCHES
			3.000			.000	CP5018	65.000	25.5100	INCHES
			.000			.000	CP5020	75.000	20.9096	INCHES
						.000	CP5022	78.000	16.8633	INCHES
									.0000	INCHES
									.0188	SCALE



WING LEADING EDGE SWEEP ANGLE, LAMDAF, DEGREES

CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (CP5016)

SYMBOL
O

ALPHA
16.000

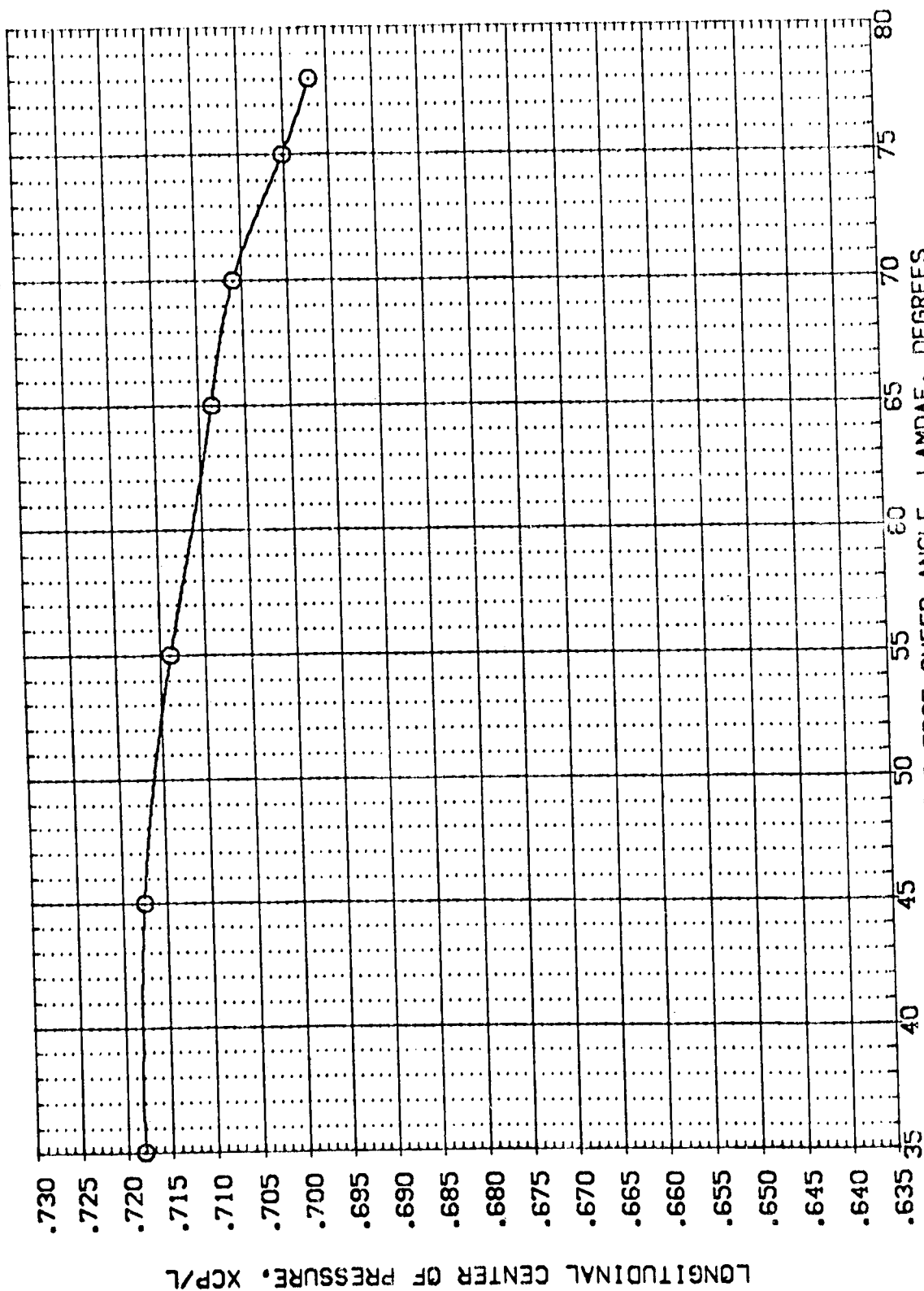
MACH
VINGND
BOFLAP

PARAMETRIC VALUES
BETA
ELEVTR
RUOFLR

DATA SOURCE
LAMDAT
DATASET
CP5016
CP5018
CP5020
CP5022

LAMDAT
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION
173.1312
26.5100
20.9096
16.8633
.0000
.0000
.0188
SCALE

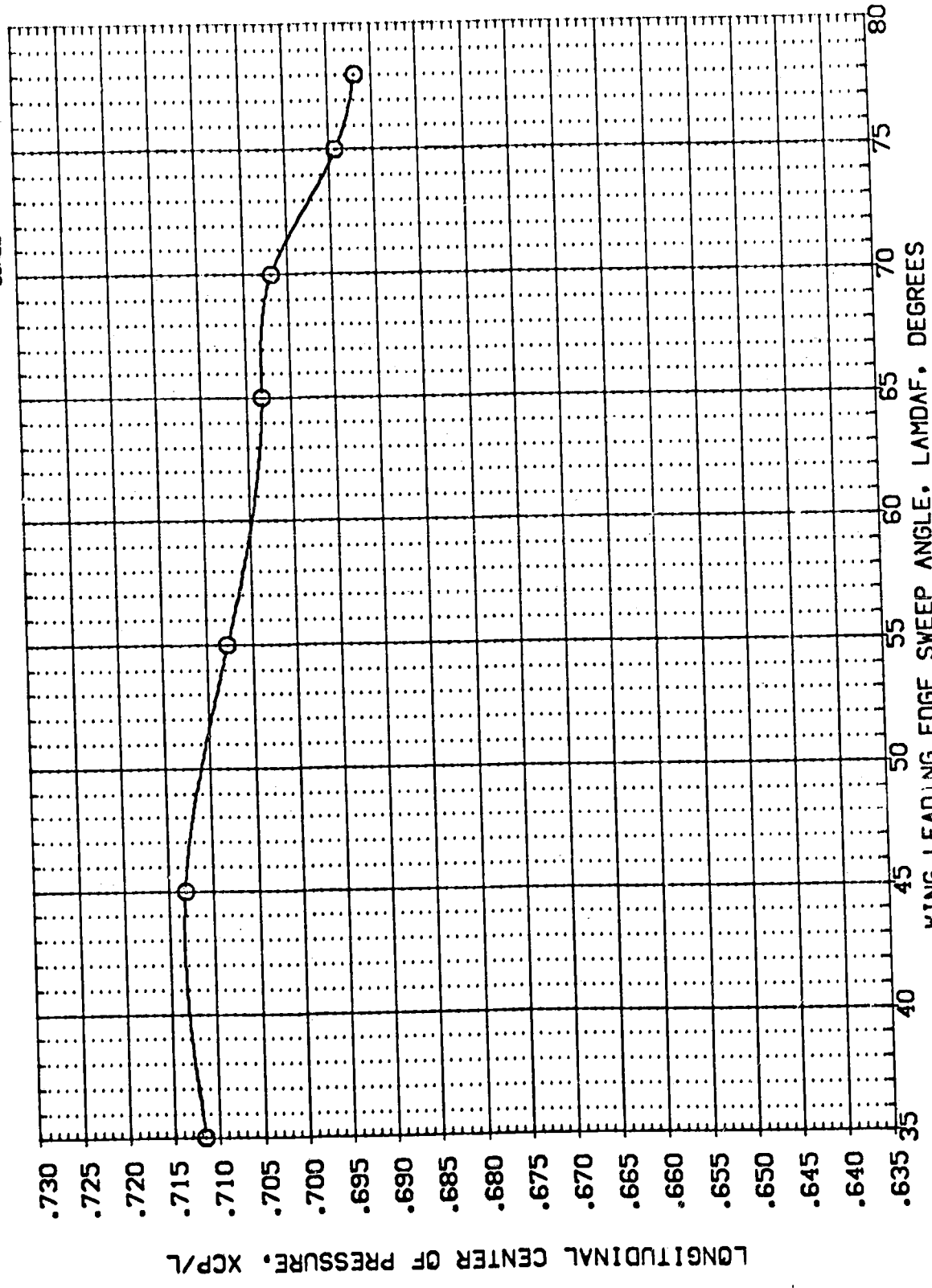


CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)



LARC 8-FT TPT 644 L0-100 ORBITER(SHIPS) (BW3VFB)(CP5016)

SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE		REFERENCE INFORMATION			
		MACH	BETA	ELEVTR	.000	DATASET	LAMDAF	SREF	LREF	SO.IN.
O	20.000	WING	3.000	3.000	.000	CP5016	45.000	BREF	25.5100	INCHES
		BOFLAP	.000	RUDFLR	.000	CP5018	65.000	YPRP	20.5096	INCHES
					.000	CP5020	75.000	ZPRP	16.8633	INCHES
					.000	CP5022	78.000	ZPRP	.0000	INCHES
								SCALE	.0188	INCHES



CENTER OF PRESSURE FOR MSC-049 WING (B W3 V FB)

APPENDIX
TABULATED SOURCE DATA

PLOTTED DATA TABULATIONS ARE AVAILABLE
FROM THE DMS ON REQUEST.

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5001) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B41VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAF = 53.200 ELEVTR = .000
 BDFLAT = .000 RUOFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 29.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 90/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.037	-.00143	-.07216	.01919	-.00133	-.00345	.00124	-.00290	-.07143	.02174	-3.28590
.350	.030	.00214	.02059	.02179	-.00279	-.00325	.00080	-.00606	.02057	.02180	.94331
.350	2.102	.00392	.10702	.01996	-.00406	-.00283	.00033	-.00665	.10622	.02387	4.45034
.350	4.203	.00575	.20310	.01455	-.00507	-.00293	.00015	-.00847	.20149	.02939	6.85469
.350	6.273	.00601	.29788	.00552	-.00594	-.00289	-.00001	-.00824	.29549	.03804	7.76848
.350	8.343	.00723	.39475	-.00442	-.00770	-.00283	-.00008	-.00968	.39122	.05290	7.39503
.350	10.432	.00815	.50536	-.01274	-.01029	-.00275	-.00011	-.01091	.49931	.07898	6.32190
.350	12.499	.00839	.60090	-.01663	-.01234	-.00198	.00048	-.01364	.59026	.11382	5.18611
.350	14.610	.00998	.69611	-.01810	-.01367	-.00295	.00037	-.01555	.67817	.15807	4.29036
.350	16.656	.00893	.75813	-.01344	-.01309	-.00716	-.00031	-.01153	.73017	.20442	3.57198
.350	18.715	.01240	.81409	-.00821	-.01249	-.00249	.00065	-.02053	.77368	.25344	3.05268
.350	20.742	.01080	.85620	-.00706	-.01283	-.00475	-.00002	-.01573	.80073	.30319	2.64104
.350	GRADIENT	.00112	.04388	-.00276	-.00060	.00010	-.00018	-.00083	.04350	.00121	1.63106

RUN NO. 89/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.117	-.00373	-.07614	.01805	-.00227	-.00350	.00141	-.00280	-.07542	.02085	-3.61770
.800	.056	.00364	.02737	.02036	-.00509	-.00308	.00086	-.00606	.02735	.02039	1.34148
.800	2.202	.00830	.13086	.01868	-.00746	-.00289	.00077	-.00912	.13005	.02369	5.48913
.800	4.359	.00945	.23845	.01309	-.00911	-.00311	.00056	-.00914	.23677	.03117	7.59541
.799	6.553	.01280	.36084	.00696	-.01194	-.00330	-.00026	-.00845	.35775	.04750	7.53166
.799	8.697	.01316	.46040	.00917	-.01345	-.00439	-.00042	-.00813	.45372	.07869	5.76680
.799	10.814	.01249	.52164	.01608	-.01237	-.00492	.00137	-.01471	.50936	.11366	4.48140
.799	12.980	.01574	.61987	.01554	-.01324	-.00224	.00092	-.01547	.60054	.15437	3.69030
.799	15.047	.01439	.66589	.02375	-.01092	-.00452	.00042	-.01258	.63689	.19582	3.25247
.799	17.160	.02051	.73640	.02727	-.01118	-.00271	.00074	-.01866	.69557	.24333	2.85860
.799	19.285	.02393	.79404	.03341	-.00942	-.00234	.00027	-.01967	.73845	.29379	2.51352
.799	21.358	.02341	.83047	.03807	-.00709	-.00387	-.00136	-.01309	.75957	.33792	2.24780
.800	GRADIENT	.00205	.04854	-.00277	-.00106	.00006	-.00012	-.00102	.04817	.00159	1.75189

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5001) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (SWAFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 53.200 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SRF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

RUN NO. 88/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.157	.00427	-.08343	.02504	-.00498	-.00288	.00186	-.00456	-.08243	.02817	-2.92635
.899	.015	.00155	.02223	.02732	-.00085	-.00262	.00152	-.00696	.02224	.02733	.81403
.900	2.259	.00781	.14167	.02606	-.01336	-.00208	.00134	-.01029	.14056	.03150	4.46173
.900	4.399	.00973	.25366	.02161	-.01486	-.00216	.00153	-.01227	.25126	.04100	6.12868
.900	6.594	.01239	.35391	.02118	-.01357	-.00473	.00100	-.01195	.34914	.06168	5.66072
.899	8.807	.01377	.45618	.02324	-.01475	-.00017	.00177	-.01589	.44724	.09281	4.81872
.899	10.947	.01353	.54804	.02851	-.01763	-.00348	.00154	-.01491	.53267	.13200	4.03553
.900	13.101	.01775	.64937	.03042	-.02054	-.00518	.00112	-.01610	.62557	.17683	3.53776
.899	15.247	.01763	.71696	.03660	-.01988	-.00518	-.00015	-.01118	.68213	.22378	3.04818
.900	17.387	.02120	.78738	.04285	-.01918	-.00302	.00060	-.01682	.73859	.27618	2.67429
.900	19.487	.02414	.84652	.04854	-.01782	-.00370	-.00053	-.01436	.78184	.32815	2.38262
.900	21.589	.02510	.89883	.05296	-.01705	-.00431	-.00175	-.01048	.81629	.37995	2.14839
GRADIENT		.00221	.05172	-.00053	-.00156	.00012	-.00005	-.00121	.05120	.00195	1.40913

RUN NO. 87/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.187	.00713	-.12568	.06217	.00680	-.00349	.00267	-.00626	-.12322	.06692	-1.84126
.980	.011	.00010	-.00081	.06458	-.00113	-.00303	.00253	-.01001	-.00082	.06457	-.01277
.980	2.197	.00420	.11200	.05326	-.00750	-.00237	.00251	-.01245	.11059	.06755	1.63713
.980	4.417	.00671	.25091	.05940	-.01611	-.00178	.00255	-.01398	.24559	.07855	3.12659
.980	6.646	.00829	.40249	.05660	-.02719	-.00126	.00266	-.01538	.39323	.10280	3.82514
.980	8.875	.00977	.54164	.05542	-.03638	-.00051	.00311	-.01808	.52661	.13832	3.80716
.981	11.078	.01181	.67606	.05707	-.04511	-.00311	.00318	-.01961	.65250	.18591	3.50985
.980	13.309	.01757	.82375	.05806	-.05793	-.00034	.00278	-.02162	.78326	.24612	3.20280
.980	15.482	.02504	.94248	.06016	-.06450	.00152	.00202	-.02333	.89222	.30956	2.88220
.980	17.670	.03078	1.01667	.06209	-.06037	.00120	.00246	-.02855	.94886	.36775	2.59287
.981	19.813	.03023	1.06382	.06124	-.05371	-.00185	.00194	-.02665	.98009	.41820	2.34358
.981	21.948	.02298	1.10537	.06487	-.04787	-.00225	.00273	-.02541	1.00101	.47332	2.11488
GRADIENT		.00208	.05654	-.00044	-.00341	.00026	-.00002	-.00116	.05537	.00172	.75242



REFERENCE DATA PARAMETRIC DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 1.000
LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 53.200 ELEVTR = .000
BREF = 19.7156 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUOFLR = .000
SCALE = .0188 SCALE

RUN NO. 86/ 0 RN/1 = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.172	-.00690	-.10960	.06929	.00647	-.00193	.00196	-.00413	-.10689	.07339	-1.45648
1.200	.030	.00122	.01102	.07217	-.00328	-.00141	.00177	-.00759	.01099	.07218	.15222
1.200	2.217	.00609	.12540	.07187	-.01188	-.00117	.00175	-.01002	.12252	.07666	1.59822
1.200	4.440	.00774	.25631	.06950	-.02194	-.00096	.00183	-.01121	.25016	.08913	2.80663
1.200	6.651	.00901	.38434	.06655	-.03150	-.00066	.00196	-.01241	.37404	.11061	3.38159
1.200	8.894	.01123	.51075	.06428	-.04028	-.00049	.00207	-.01402	.49467	.14247	3.47201
1.200	11.115	.01360	.63148	.06302	-.04765	.00004	.00217	-.01571	.60748	.18358	3.30913
1.200	13.344	.01677	.74464	.06323	-.05308	-.00034	.00244	-.01850	.70994	.23339	3.04188
1.200	15.537	.02066	.85550	.06234	-.05864	-.00031	.00231	-.02015	.80754	.28921	2.79220
1.201	17.762	.02345	.95754	.06249	-.06136	.00017	.00245	-.02233	.89283	.35162	2.53916
1.200	19.957	.02678	1.03985	.06170	-.05948	-.00065	.00244	-.02434	.95634	.41292	2.31608
1.200	22.140	.02650	1.11638	.06131	-.05750	.00000	.00280	-.02581	1.01096	.47752	2.11712
GRADIENT		.00221	.05504	.00001	-.05426	.00014	-.00002	-.00107	.05371	.00235	.64628

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWL VFB)

(R55FD1) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ. IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 53.200 ELEVTR = .000
SDFLAP = .000 RUOFLR = .000

RUN NO. 90/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.037	165.89512	-.04272	-.06672	-.10801	-.03438
.350	.030	167.38298	-.04476	-.06853	-.10899	-.03506
.350	2.102	167.38298	-.04476	-.07043	-.10851	-.03410
.350	4.203	167.19562	-.04673	-.07384	-.11150	-.03509
.350	6.273	166.82180	-.04923	-.07830	-.11510	-.03851
.350	8.343	166.72798	-.05262	-.08503	-.12189	-.04333
.350	10.432	166.91562	-.05929	-.09639	-.12799	-.05286
.350	12.499	166.72798	-.07186	-.11561	-.14926	-.06581
.350	14.610	167.00919	-.08663	-.14260	-.17875	-.08297
.350	16.656	166.91562	-.11838	-.19184	-.21914	-.13903
.350	18.715	166.72869	-.15170	-.23839	-.26309	-.16602
.350	20.742	166.91585	-.21351	-.32211	-.34868	-.25871
GRADIENT		.18849	-.02058	-.02112	-.02048	-.02006

RUN NO. 89/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.117	311.61795	-.01183	-.04461	-.06613	-.01768
.800	.055	311.34979	-.01208	-.04361	-.06437	-.01716
.800	2.202	311.42313	-.01388	-.04462	-.05895	-.01870
.800	4.359	311.42313	-.01568	-.04769	-.06461	-.01896
.799	6.553	311.08771	-.02057	-.05489	-.07392	-.02384
.799	8.697	310.80668	-.03941	-.07876	-.09974	-.04544
.799	10.814	311.22191	-.07700	-.11630	-.14878	-.06543
.799	12.980	311.21564	-.10870	-.15751	-.19072	-.10574
.799	15.047	311.15482	-.18397	-.23792	-.27774	-.18373
.799	17.160	310.87382	-.24010	-.29731	-.33387	-.23539
.799	19.285	311.22191	-.33338	-.39272	-.44107	-.32270
.799	21.358	311.28899	-.41755	-.47299	-.53564	-.40067
.800	GRADIENT	-.02377	-.04062	-.02047	-.02046	-.02025

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (PLVFB)

(RP5PD1) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XRMP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANCAF = 53.200 ELEVTR = .000
BDPLAP = .000 RUOFLR = .000

RUN NO. 88/ D RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.157	355.25213	-.00890	-.02043	-.01394	-.01743
.899	.015	354.89518	-.01433	-.02359	-.01937	-.02217
.900	2.209	354.96868	-.02495	-.03188	-.03132	-.03230
.900	4.399	355.15618	-.01229	-.05205	-.04596	-.01766
.900	6.594	355.01903	-.03149	-.08012	-.08928	-.04647
.899	8.807	355.07371	-.06718	-.10680	-.11836	-.05344
.899	10.940	355.01421	-.11259	-.19276	-.18515	-.12750
.900	13.101	355.37100	-.15580	-.23067	-.22698	-.14177
.899	15.240	354.95470	-.23506	-.33147	-.33543	-.26237
.900	17.387	355.20178	-.33197	-.39471	-.37938	-.35173
.900	19.487	355.32982	-.43115	-.49724	-.48719	-.44313
.900	21.588	355.13320	-.51568	-.58341	-.59592	-.51065
GRADIENT		-.00968	-.00095	-.00472	-.00494	-.00049

RUN NO.

87/ D RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.187	385.29378	-.14197	-.15771	-.15141	-.15351
.980	.011	385.29373	-.14613	-.15771	-.16056	-.15953
.980	2.197	385.29378	-.15050	-.15564	-.17137	-.16637
.980	4.417	385.33967	-.16092	-.16351	-.18385	-.17799
.980	6.646	384.97279	-.18736	-.18791	-.21318	-.20456
.980	8.875	385.38556	-.22981	-.22863	-.25263	-.24435
.981	11.078	385.56899	-.27620	-.27347	-.30081	-.29244
.980	13.308	385.40072	-.30885	-.30280	-.34195	-.33224
.980	15.482	385.23272	-.34681	-.34216	-.38215	-.37590
.980	17.670	385.03387	-.42248	-.42456	-.44672	-.43656
.981	19.813	385.47780	-.49928	-.51014	-.51092	-.50727
.981	21.948	385.52315	-.57739	-.57947	-.60055	-.59257
GRADIENT		.00627	-.00278	-.00070	-.00491	-.00365

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(REFS01) (19 MAY 73)

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (SMVFB)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0189 SCALE

YMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 53.200 ELEVTR = .000
SDFLAP = .000 RUOFLR = .000

FUN NO. 86/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CPE2	CPC1	CPC2
1.200	-2.172	440.42224	-2.20925	-2.21769	-2.21392	-2.21049
1.200	.030	440.62382	-2.22689	-2.23004	-2.23045	-2.22535
1.200	2.217	440.59476	-2.23004	-2.22965	-2.23849	-2.23537
1.200	4.440	440.49398	-2.23299	-2.22478	-2.24432	-2.24245
1.200	6.651	440.59476	-2.24023	-2.23472	-2.25485	-2.25296
1.200	8.894	440.49398	-2.25517	-2.25010	-2.27050	-2.26876
1.200	11.115	440.52303	-2.28063	-2.27536	-2.29499	-2.29301
1.200	13.344	440.53073	-3.00199	-2.29842	-3.31617	-3.31560
1.200	15.537	440.53073	-3.31455	-3.32771	-3.32762	-3.33065
1.201	17.762	440.67996	-3.49003	-3.36521	-3.35732	-3.35993
1.200	19.957	440.56569	-3.9135	-3.39188	-3.39849	-3.39539
1.200	22.140	440.59476	-4.3079	-4.2762	-4.4463	-4.4412
	GRADIENT	.00841	-4.00332	-4.00781	-4.00450	-4.00481



REFERENCE DATA
SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE
PARAMETRIC DATA
BETA = .000 WINGNO = 1.000
LANCAF = 60.000 ELEVTR = .000
BDFLAP = .000 RUFLR = .000

RUN NO. 115/ 0 RV/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00												
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
.348	-2.056	-.00079	-.07143	.01969	-.00145	-.00338	.00126	-.00386	-.07067	.02224	-3.17837	
.348	.008	.00235	.01881	.02202	-.00269	-.00284	.00079	-.00636	.01880	.02202	.85450	
.348	2.091	.00507	.10706	.02030	-.00390	-.00262	.00014	-.00755	.0625	.02419	4.39245	
.348	4.157	.00538	.19730	.01509	-.00472	-.00241	.00006	-.00769	.19569	.02935	6.66664	
.348	6.235	.00629	.29058	.00635	-.00527	-.00285	.00004	-.00890	.28817	.03788	7.60746	
.348	8.321	.00641	.39361	-.00416	-.00706	-.00224	-.00026	-.00795	.39007	.05284	7.58163	
.348	10.417	.00728	.50234	-.01272	-.00972	-.00222	-.00012	-.00975	.49636	.07832	6.33747	
.348	12.488	.00829	.60172	-.01414	-.01153	-.00175	.00034	-.01306	.59055	.11631	5.07743	
.348	14.555	.00981	.67703	-.01081	-.01084	-.00176	.00069	-.01671	.65802	.15968	4.12074	
.348	16.613	.01046	.75051	-.00822	-.01238	-.00195	.00125	-.02003	.72153	.20670	3.49067	
.347	18.668	.00922	.80295	-.00402	-.01238	-.00508	.00121	-.01827	.76230	.25320	3.00946	
.347	20.716	.01127	.87408	-.00077	-.01351	-.00142	.00137	-.02210	.81784	.30847	2.65131	
GRADIENT		.00102	.04316	-.00075	-.00053	.00015	-.00021	-.00061	.04278	.00113	1.59608	

RUN NO. 114/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00												
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D	
.800	-2.115	-.00315	-.07377	.01847	-.00256	-.00301	.00121	-.00246	-.07304	.02118	-3.44802	
.801	.026	.00326	.02597	.02061	-.00484	-.00273	.00079	-.00548	.02596	.02062	1.25923	
.799	2.180	.00765	.12735	.01911	-.00691	-.00265	.00057	-.00787	.12653	.02394	5.26569	
.800	4.350	.01039	.23776	.01356	-.00875	-.00298	.00051	-.00965	.23604	.03155	7.48084	
.799	6.518	.01283	.35521	.00665	-.01118	-.00297	-.00018	-.00877	.35216	.04693	7.50357	
.801	8.675	.01140	.44572	.00118	-.01176	-.00209	.00046	-.01025	.43909	.07728	5.68142	
.799	10.798	.01288	.53398	.01409	-.01338	-.00275	.00064	-.01214	.52189	.11388	4.58274	
.800	12.932	.01574	.60472	.01661	-.01208	-.00100	.00039	-.01730	.58566	.15152	3.86513	
.800	15.085	.01452	.67809	.02295	-.01159	-.00481	-.00015	-.01041	.64885	.19830	3.27214	
.799	17.182	.01909	.75041	.02591	-.00984	-.00368	.00031	-.01587	.70927	.24643	2.87817	
.800	19.264	.01781	.79726	.03020	-.00721	-.00511	-.00006	-.01361	.74266	.29153	2.54743	
.800	21.375	.02193	.84277	.03507	-.00423	-.00384	-.00035	-.01590	.77201	.33982	2.27183	
GRADIENT		.00209	.04808	-.00076	-.00096	.00001	-.00011	-.00111	.04770	.00160	1.70753	

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5002) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B41VFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA =
 LAMDAF =
 BDFLAP =

RUN NO. 113/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALP. A	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.161	-.00406	-.00077	.02377	-.00489	-.00298	.00179	-.00440	-.07982	.02680	-2.97844
.900	-.015	.00246	.01940	.02781	-.00810	-.00232	.00129	-.00664	.01941	.02780	.69819
.902	2.184	.00799	.13399	.02570	-.01196	-.00228	.00122	-.00993	.13291	.03079	4.31725
.904	4.391	.00982	.25117	.02196	-.01381	-.00222	.00129	-.01141	.24875	.04112	6.04923
.906	6.615	.01314	.35129	.02174	-.01270	-.00500	.00083	-.01176	.34645	.06207	5.58191
.908	8.759	.01313	.45867	.02135	-.01522	-.00354	.00094	-.01222	.45007	.09095	4.94863
.910	10.917	.01313	.54319	.02875	-.01691	-.00282	.00162	-.01493	.52792	.13110	4.02673
.912	13.064	.01780	.62897	.03063	-.01702	-.00071	.00115	-.01626	.60576	.17201	3.52158
.914	15.212	.01750	.71354	.03628	-.01854	-.00436	.00006	-.01191	.22224	.305531	2.71266
.916	17.383	.02060	.79591	.03967	-.01752	-.00408	.00000	-.01387	.74771	.27564	2.40926
.918	19.513	.02110	.85768	.04537	-.01528	-.00396	.00037	-.01583	.79326	.32926	2.16181
.920	21.618	.02169	.90857	.05089	-.01387	-.00300	.00100	-.01892	.82591	.38205	1.40368
GRADIENT		.00216	.05082	-.00035	-.00140	.00011	-.00007	-.00111	.05031	.00211	

RUN NO. 112/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.180	-.00771	-.11955	.06281	.00612	-.00335	.00274	-.00618	-.11779	.06732	-1.73924
.900	.001	-.00158	-.00080	.06432	-.00112	-.00263	.00246	-.00866	-.00080	.06432	-.01242
.902	2.178	.00165	.11259	.06229	-.00727	-.00206	.00250	-.01198	.11014	.06653	1.65564
.904	4.398	.00645	.25064	.05932	-.01583	-.00142	.00261	-.01409	.24536	.07837	3.13086
.906	6.635	.00836	.40035	.05582	-.02682	-.00196	.00259	-.01516	.39122	.10171	3.84646
.908	8.866	.00932	.53980	.05461	-.03579	-.00036	.00292	-.01706	.52493	.13716	3.82721
.910	11.053	.01205	.67275	.05659	-.04468	-.00221	.00308	-.01939	.64542	.18452	3.51951
.912	13.267	.01692	.82261	.05908	-.05770	-.00335	.00268	-.02080	.78710	.24629	3.19583
.914	15.459	.02485	.91019	.05844	-.05571	.00393	.00192	-.02282	.86168	.29894	2.88250
.916	17.651	.02592	1.00215	.06081	-.05607	.00148	.00328	-.02818	.93653	.36181	2.50444
.918	19.811	.03025	1.08476	.06271	-.05586	-.00130	.00271	-.03268	.99830	.42665	2.34223
.920	21.946	.01470	1.10400	.06204	-.04346	-.00339	.00468	-.02773	1.00081	.47015	2.12871
GRADIENT		.00218	.05587	-.00057	-.00329	.00029	-.00002	-.00123	.05470	.00162	-.74280

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5002: (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B41VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 DREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 111/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLL	CYN	CY	CL	CD	L/D
1.200	-2.216	-.00662	-.11098	.06937	.00647	-.00205	.00187	-.00393	-.10822	.07361	-1.47019
1.200	-.017	.00135	.00640	.07218	-.00280	-.00150	.00167	-.00725	.00642	.07217	.08900
1.200	2.180	.00663	.11958	.07188	-.01100	-.00105	.00164	-.00990	.11676	.07637	1.52880
1.200	4.417	.00730	.25138	.06915	-.02090	-.00067	.00182	-.01095	.24531	.08930	2.77810
1.200	6.644	.00945	.38243	.06602	-.03057	-.00032	.00191	-.01243	.37223	.10982	3.38934
1.200	8.873	.01157	.51090	.06328	-.03925	-.00023	.00203	-.01402	.49503	.14132	3.50283
1.200	11.090	.01321	.62844	.06205	-.04556	.00076	.00230	-.01601	.60280	.18139	3.32315
1.200	13.317	.01813	.74611	.06224	-.05190	.00006	.00211	-.01793	.71171	.23243	3.06204
1.199	15.535	.02200	.86211	.06197	-.05697	.00017	.00219	-.02044	.81429	.28963	2.81145
1.200	17.746	.02521	.94853	.06192	-.05688	.00468	.00247	-.02341	.88452	.34809	2.54110
1.200	19.946	.02466	1.03317	.06163	-.05517	.00286	.00303	-.02548	.95037	.40982	2.31901
1.199	22.149	.02648	1.11700	.06069	-.05392	.00014	.00299	-.02655	1.01169	.47734	2.11943
		.00213	.05433	-.00005	-.00409	.00021	-.00001	-.00107	.05300	.00219	.64182

GRADIENT

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5P02) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BWLVB)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 19.7156 INCHES
 SCALE = .0189 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 115/ 0 RN/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.056	165.31987	-.04392	-.06621	-.10908	-.03583
.348	.009	165.31987	-.04431	-.06717	-.11053	-.03448
.348	2.091	165.13306	-.04387	-.06966	-.10872	-.03354
.348	4.157	165.13306	-.04630	-.07352	-.11114	-.03548
.348	6.236	165.13283	-.04921	-.07738	-.11599	-.04032
.348	8.321	165.13283	-.05407	-.08558	-.12375	-.04371
.348	10.417	165.22624	-.05937	-.09710	-.13240	-.05384
.348	12.488	165.13260	-.07350	-.11548	-.15284	-.06645
.348	14.555	165.22647	-.09482	-.14772	-.18572	-.08576
.348	16.613	164.85166	-.11497	-.18332	-.20993	-.10970
.347	18.668	164.57092	-.15463	-.24219	-.26381	-.16960
.347	20.716	164.57092	-.19460	-.30221	-.31198	-.20650
GRADIENT		-.03609	-.00034	-.05118	-.07021	-.07011

RUN NO. 114/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.115	311.72903	-.07105	-.04318	-.06520	-.01792
.801	.026	312.06406	-.01388	-.04443	-.06566	-.01869
.799	2.180	311.05637	-.01440	-.04453	-.05965	-.01793
.800	4.350	311.49646	-.01491	-.04679	-.06318	-.01819
.799	6.518	311.13601	-.02187	-.05578	-.07456	-.02508
.801	8.675	311.01116	-.04294	-.07869	-.10599	-.04124
.799	10.798	311.23445	-.07211	-.11514	-.14349	-.07210
.800	12.932	311.49646	-.11172	-.15598	-.19480	-.09489
.800	15.055	311.69756	-.17205	-.23511	-.27176	-.15584
.799	17.182	311.30155	-.23904	-.30165	-.33690	-.24509
.800	19.264	311.35607	-.32221	-.38578	-.43124	-.32231
.800	21.375	311.35607	-.41443	-.47250	-.53900	-.40033
GRADIENT		-.07909	-.00056	-.10051	-.07056	-.07000



DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BM1VFB)

(RP5P02) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

MACH = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANSAP = 60.000 ELEVTR = .000
BDPLAP = .000 RUCLFLR = .000

RUN NO. 113/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.888	-2.161	354.42378	-.00371	-.02193	-.01317	-.01678
.900	-.015	355.34807	-.01410	-.02390	-.01900	-.02237
.899	2.184	355.11012	-.01930	-.03064	-.02488	-.02756
.900	4.391	355.10585	-.01162	-.03397	-.05306	-.01428
.900	6.615	355.31157	-.03125	-.08039	-.08752	-.04733
.900	8.759	355.21090	-.06061	-.10732	-.12406	-.06984
.900	10.917	355.52639	-.11538	-.20043	-.18815	-.13406
.899	13.064	354.94561	-.16708	-.23307	-.23966	-.14846
.899	15.212	354.92740	-.23262	-.32779	-.33082	-.25518
.900	17.383	355.03727	-.32177	-.38535	-.36794	-.34153
.900	19.513	355.31157	-.42829	-.48549	-.46614	-.44472
.900	21.618	355.51725	-.51648	-.58223	-.58795	-.51549
GRADIENT		.08201	-.00131	-.00472	-.00576	.00012

RUN NO. 112/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.180	385.36998	-.14509	-.16147	-.15336	-.15535
.981	.001	385.57228	-.14612	-.15715	-.16145	-.15969
.980	2.178	385.37039	-.14099	-.14669	-.16507	-.15957
.980	4.398	385.12574	-.15760	-.16171	-.18104	-.17551
.980	6.635	385.33967	-.18384	-.18552	-.20909	-.20122
.980	8.866	385.47690	-.22651	-.22584	-.24961	-.24083
.981	11.053	385.23351	-.27454	-.27127	-.29966	-.29014
.980	13.267	385.47692	-.30863	-.30388	-.34199	-.33197
.980	15.459	385.61798	-.36118	-.35774	-.38864	-.37997
.980	17.651	385.14136	-.42878	-.42797	-.45138	-.44154
.981	19.811	385.50764	-.49526	-.49337	-.51166	-.50161
.981	21.946	385.61453	-.57108	-.58025	-.59456	-.58753
GRADIENT		-.04280	-.00149	.00043	-.00396	-.00276

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM1VFB)

(RPSFD2) (19 MAY 73)

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REFERENCE DATA

SREF = 175.7376 SQ. IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .0000 WINGNO = 1.0000
LANDAF = 60.0000 ELEVTR = .0000
BDFLAP = .0000 RUFLR = .0000

RUN NO. 111/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.216	440.40088	-20887	-21701	-21397	-21026
1.200	-0.017	440.65287	-22506	-23055	-22904	-22367
1.200	2.180	440.50168	-23071	-23436	-23977	-23474
1.200	4.417	440.40088	-23218	-22641	-24306	-24020
1.200	6.644	440.70327	-23816	-23145	-25229	-24995
1.200	8.873	440.69553	-25572	-24998	-27146	-26890
1.200	11.090	440.61608	-27525	-27064	-28897	-28764
1.200	13.317	440.55977	-30125	-29683	-31766	-31717
1.199	15.535	440.25730	-31572	-32657	-33175	-33396
1.200	17.746	440.61017	-35512	-36425	-36344	-36359
1.200	19.946	440.65287	-39341	-39396	-40295	-39993
1.199	22.149	440.43892	-44132	-44245	-45533	-45346
GRADIENT		-0.00694	-0.00342	-0.00144	-0.00443	-0.00456

(RP5003) (19 MAY 75)

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 OBITER (SHIPS) (BW1VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LAWDAF = 65.000 ELEVTR = .000
BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 110/ 0 RNVL = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
.350	-2.045	-.00180	-.06740	.01869	-.00197	-.00296	.00127	-.00233	-.06669	.02107	-3.16490
.349	.021	.00178	.02240	.02099	-.00304	-.00288	.00098	-.00629	.02240	.02100	1.06676
.348	2.106	.00309	.11190	.01961	-.00393	-.00238	.00034	-.00562	.11110	.02371	4.68568
.349	4.176	.00530	.20335	.01403	-.00445	-.00270	.00031	-.00852	.20378	.02894	7.04101
.349	6.266	.00569	.29876	.00543	-.00482	-.00259	.00001	-.00791	.29639	.03801	7.79768
.349	8.342	.00569	.40193	-.00459	-.00648	-.00234	.00003	-.00802	.39834	.05377	7.40869
.349	10.440	.00691	.51159	-.01204	-.00882	-.00212	-.00005	-.00948	.50530	.08086	6.24882
.349	12.511	.00740	.60706	-.01260	-.00971	-.00092	.00097	-.01422	.59538	.11921	4.99417
.349	14.605	.00976	.70066	-.01512	-.00855	.00079	.00194	-.02149	.68183	.16205	4.20758
.349	16.668	.00961	.76921	-.01166	-.00749	-.00765	-.00012	-.01947	.74523	.20946	3.53397
.349	18.730	.01171	.83914	-.00972	-.00703	-.00191	.00062	-.01947	.79782	.26125	3.06561
.348	20.793	.01302	.91344	-.00679	-.00739	-.00161	.00125	-.02408	.85635	.31792	2.69360
GRADIENT		.00109	.04375	-.00074	-.00040	.00006	-.00017	-.00083	.04338	.00127	1.65008

RUN NO. 109/ 0 RNVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
.799	-2.130	-.00282	-.07509	.01799	-.00302	-.00306	.00133	-.00316	-.07437	.02077	-3.58021
.799	.038	.00321	.02836	.02045	-.00515	-.00276	.00090	-.00588	.02835	.02047	1.38459
.799	2.197	.00642	.13139	.01869	-.00685	-.00264	.00079	-.00783	.13058	.02372	5.50597
.800	4.358	.00942	.24055	.01278	-.00814	-.00284	.00049	-.00886	.23888	.03102	7.70089
.800	6.558	.01255	.36607	.00662	-.01099	-.00315	-.00021	-.00842	.36292	.04839	7.50037
.799	8.692	.01082	.44831	.01089	-.01068	-.00158	.00085	-.01136	.44152	.07852	5.62313
.800	10.832	.01232	.53554	.01274	-.01146	-.00216	.00085	-.01253	.52360	.11316	4.62729
.799	12.958	.01434	.60064	.01719	-.00762	-.00300	.00022	-.01166	.58149	.15144	3.83986
.799	15.098	.01688	.68164	.02094	-.00645	-.00466	-.00017	-.01217	.65266	.19777	3.30004
.799	17.226	.02115	.75585	.02484	-.00522	-.00228	.00090	-.01977	.71459	.24756	2.89620
.799	19.326	.02438	.82134	.03103	-.00417	-.00279	-.00036	-.01755	.76383	.30082	2.53920
.799	21.400	.03158	.85586	.03717	-.00154	-.00022	-.00076	-.02190	.78329	.34689	2.25806
GRADIENT		.00185	.04856	-.00080	-.00079	.00004	-.00012	-.00088	.04819	.00157	1.75594

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5003) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM/VB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SG.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

BETA = .000 WINGNO = 1.000
 LANDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 108/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	CL	CD	L/D
.898	-2.165	-.00515	-.08086	.02295	-.00549	-.00288	.00179	-.00370	-.07993	.02399	-3.07505
.899	.011	.00150	.02464	.02636	-.00870	-.00239	.00138	-.00637	.02464	.02636	.93441
.900	2.190	.00640	.13673	.02573	-.01185	-.00203	.00128	-.00914	.13565	.03093	4.38543
.899	4.408	.00882	.25478	.02181	-.01371	-.00190	.00128	-.01074	.25235	.04133	6.10599
.899	5.589	.01132	.35383	.01999	-.01262	-.00407	.00125	-.01222	.34919	.06046	5.77571
.899	6.781	.01355	.46155	.02222	-.01394	-.00340	.00110	-.01316	.45275	.09242	4.89873
.899	10.952	.01362	.55196	.02579	-.01527	-.00301	.00084	-.01219	.53700	.13018	4.12494
.900	13.122	.01533	.64139	.02810	-.01350	-.00404	.00076	-.01389	.61826	.17298	3.57418
.900	15.309	.01892	.74117	.03068	-.01463	-.00362	.00174	-.01946	.70577	.22528	3.13726
.899	17.459	.02133	.82112	.03758	-.01451	-.00391	.00156	-.01983	.77202	.28220	2.73570
.899	19.586	.02895	.89390	.04336	-.01480	-.00448	.00121	-.02449	.82765	.34050	2.43065
.901	21.673	.03340	.93019	.05085	-.01133	.00798	.00141	-.02863	.84566	.39077	2.16407
.899		.03214	.05111	-.00019	-.00127	.00015	-.00007	-.00109	.05060	.00231	1.41427

RUN NO. 107/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	CL	CD	L/D
.980	-2.187	-.00861	-.12339	.06140	.00613	-.00320	.00265	-.00531	-.12096	.06606	-1.83095
.980	.010	-.00101	-.00085	.06444	-.00120	-.00271	.00248	-.002915	-.00086	.06444	-.01333
.981	2.191	.00340	.11360	.06275	-.00713	-.00217	.00249	-.01180	.11112	.06704	1.65741
.980	4.417	.00618	.25305	.05871	-.01531	-.00155	.00235	-.01288	.24778	.07802	3.17575
.980	6.655	.00813	.40116	.05446	-.02560	-.00102	.00263	-.01514	.39215	.10058	3.89890
.980	8.872	.00858	.54655	.05555	-.03345	-.00087	.00326	-.01794	.53145	.13917	3.81866
.980	11.072	.01183	.67160	.05533	-.04296	-.00167	.00313	-.01942	.64847	.18328	3.53824
.980	13.295	.01847	.82332	.05886	-.05531	-.00070	.00247	-.02093	.78772	.24661	3.19417
.981	15.510	.02386	.94890	.06163	-.06136	-.00101	.00239	-.02405	.89809	.31228	2.87588
.981	17.715	.02940	1.05393	.06115	-.06358	-.00086	.00210	-.02652	.98535	.37895	2.60022
.981	19.892	.03289	1.12452	.06340	-.05873	-.00089	.00197	-.02844	1.03586	.44224	2.34230
.981	22.031	.03247	1.13992	.05852	-.04287	.00050	.00295	-.03233	1.03473	.48183	2.14751
.980		.03222	.05656	-.00045	-.00319	.00025	-.00004	-.00115	.05540	.00175	-.75881

GRADIENT

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5003) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMVFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 106/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.195	-.00796	-.11064	.06880	.00647	-.00197	.00184	-.00308	-.10792	.07299	-1.47862
1.201	.022	.00063	.00982	.07159	-.00266	-.00151	.00178	-.00730	.00979	.07159	.13677
1.201	2.212	.00561	.12327	.07114	-.01061	-.00103	.00179	-.00993	.12043	.07584	1.58788
1.201	4.451	.00706	.25550	.06818	-.02030	-.00067	.00188	-.01106	.24944	.08780	2.84085
1.201	6.668	.00911	.38496	.06501	-.02948	-.00046	.00198	-.01254	.37481	.10927	3.43019
1.199	8.912	.01115	.51445	.06253	-.03780	-.00027	.00204	-.01387	.49855	.14147	3.52403
1.200	11.139	.01345	.63390	.06204	-.04413	.00036	.00236	-.01638	.60998	.18333	3.52715
1.200	13.361	.01860	.75644	.06218	-.05070	.00069	.00221	-.01858	.72159	.23530	3.06672
1.200	15.594	.02238	.86781	.06093	-.05496	.00077	.00227	-.02084	.81949	.29198	2.80689
1.200	17.804	.02416	.95303	.06219	-.05345	.00117	.00257	-.02324	.88837	.35061	2.53382
1.199	20.001	.02756	1.04635	.06227	-.05442	.00061	.00268	-.02573	.96194	.41641	2.31009
1.200	21.646	.03014	1.12381	.06194	-.05642	-.00230	.00238	-.02615	1.02172	.47211	2.16414
GRADIENT		.00226	.05477	-.07011	-.07399	.00020	.00001	-.00120	.05345	.00220	.65109

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BMA VFB)

(RPSF03) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 19.7156 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAP = 65.000 ELEVTR = .000
 BSFLAP = .000 RUOFLR = .000

RUN NO. 110/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.045	167.28822	-.04335	-.06547	-.10833	-.03460
.349	.021	166.35244	-.04358	-.06774	-.10796	-.03285
.348	2.106	165.69718	-.04519	-.06991	-.10837	-.03345
.349	4.176	165.88465	-.04659	-.07368	-.11115	-.03486
.349	6.266	166.07234	-.04896	-.07888	-.11633	-.03867
.349	8.342	166.25932	-.05276	-.08550	-.11958	-.04584
.349	10.440	166.07164	-.05910	-.09662	-.12887	-.05407
.349	12.511	166.35315	-.07202	-.11370	-.14206	-.06599
.349	14.605	165.97826	-.08715	-.13507	-.16223	-.07576
.349	16.668	165.88442	-.12104	-.18892	-.21831	-.14035
.349	18.730	165.88512	-.14570	-.22206	-.22893	-.16010
.348	20.793	165.69741	-.18846	-.27470	-.26737	-.20657
GRADIENT		-.23452	-.00055	-.00129	-.00043	-.00007

RUN NO. 109/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.130	311.08145	-.01027	-.04145	-.06247	-.01588
.799	.038	311.15482	-.01104	-.04221	-.06246	-.01665
.799	2.197	311.25326	-.01387	-.04424	-.06013	-.01715
.800	4.358	311.26388	-.01723	-.04733	-.06786	-.01742
.800	6.558	311.78347	-.01954	-.05391	-.07393	-.02229
.799	8.692	310.70201	-.04408	-.08097	-.10635	-.04211
.800	10.832	311.36235	-.07106	-.11178	-.14062	-.06569
.799	12.958	310.80042	-.12793	-.17423	-.20989	-.13543
.799	15.098	311.21564	-.18087	-.23468	-.27242	-.19818
.799	17.226	311.08145	-.24024	-.29879	-.34074	-.23807
.799	19.326	310.81293	-.32119	-.39359	-.44124	-.32901
.799	21.400	311.01433	-.41589	-.47992	-.53031	-.39484
GRADIENT		.02987	-.00110	-.00091	-.00064	-.00024

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 6-FT TPT 644 LO-100 ORBITER (SHIPS) (BWLFB)

(RF5PD3) (19 MAY 73)

REFERENCE DATA

SREF = 173.7376 SQ. IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = 0.188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LWDAF = 65.000 ELEVTB = .000
BDFLAP = .000 RUDFLR = .000

RUN NO. 108/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CPB1	CPB2	CPC1	CPC2
.898	-2.165	354.63881	-.02089	-.02237	-.01385	-.01408
.899	.011	354.68609	-.01388	-.02482	-.01948	-.02240
.900	2.190	355.31157	-.02087	-.03152	-.02757	-.03002
.899	4.408	354.89518	-.01117	-.05310	-.05423	-.01047
.899	6.589	354.96380	-.03083	-.07621	-.08625	-.04198
.899	8.781	354.70745	-.06273	-.10208	-.10912	-.05124
.899	10.952	355.14231	-.10421	-.16790	-.17460	-.10226
.900	13.122	355.64521	-.16585	-.24449	-.25586	-.18390
.900	15.309	355.13320	-.21848	-.30607	-.31508	-.23366
.899	17.459	355.02331	-.30417	-.39143	-.37337	-.32399
.901	19.586	355.71374	-.39670	-.47644	-.46225	-.41232
.899	21.673	355.02331	-.50567	-.57765	-.59419	-.50495
	GRADIENT	.05419	-.00172	-.00453	-.00591	-.00816

RUN NO. 107/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CPB1	CPB2	CPC1	CPC2
.980	-2.187	385.32408	-.13945	-.15467	-.14961	-.15057
.980	.010	385.06557	-.14713	-.15859	-.16040	-.15989
.981	2.191	385.64842	-.15074	-.15575	-.17312	-.16678
.980	4.417	385.37039	-.15972	-.16323	-.18419	-.17740
.980	6.655	385.12574	-.17718	-.17871	-.20226	-.19460
.980	8.872	385.30893	-.23022	-.22973	-.25313	-.24516
.980	11.072	385.01969	-.28106	-.27774	-.30590	-.29540
.980	13.295	385.26346	-.31523	-.31044	-.34964	-.33773
.981	15.518	385.50764	-.36169	-.35804	-.39311	-.38443
.981	17.715	385.50797	-.40233	-.40563	-.42911	-.42284
.981	19.892	385.58384	-.48143	-.48192	-.50186	-.49626
.980	22.031	385.21709	-.52773	-.54507	-.54644	-.53950
	GRADIENT	.03260	-.00293	-.00104	-.00529	-.00397

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RPSPD3) (19 MAY 73)

LARC 8-FT TPI 644 LO-100 ORBITER (SHIPS) (BWL1VFB)

REFERENCE DATA

SREF = 175.7376 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 19.7155 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANGAF = 65.000 ELEVIR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 106/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CPB1	CPB2	CPC1	CPC2
1.201	-2.195	440.72250	-.20958	-.21753	-.21486	-.21060
1.201	.022	440.57141	-.22451	-.23056	-.22795	-.22258
1.201	2.212	440.67214	-.23196	-.23561	-.24066	-.23527
1.201	4.451	440.67214	-.23251	-.22567	-.24448	-.24107
1.201	6.668	440.57141	-.23980	-.23327	-.25431	-.25214
1.199	8.912	440.26492	-.25551	-.25103	-.27200	-.26871
1.200	11.139	440.45896	-.27724	-.27244	-.29205	-.28999
1.200	13.361	440.65287	-.29913	-.29509	-.31591	-.31379
1.200	15.594	440.45717	-.31087	-.32664	-.32491	-.32695
1.200	17.804	440.53840	-.36402	-.38032	-.37288	-.37228
1.199	20.001	440.30772	-.40204	-.41900	-.41085	-.41320
1.200	21.646	440.58113	-.43727	-.44711	-.44529	-.45070
GRADIENT		-.00229	-.00344	-.00133	-.00459	-.00470



DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHITS) (B4.1VFB)

(RF5004) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LWDAF = 70.000 ELEVTR = .000
SPFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ. IN. YMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 10.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

RUN NO. 105/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.039	-.00192	-.07177	.01986	-.00198	-.00314	.00123	-.00274	-.07102	.02240	-3.17090
.349	.043	.00131	.02447	.02201	-.00270	-.00277	.00077	-.00482	.02445	.02203	1.11023
.349	2.117	.00418	.11055	.02068	-.00323	-.00256	.00020	-.00655	.10971	.02475	4.43227
.349	4.206	.00461	.20105	.01320	-.00330	-.00255	.00008	-.00665	.19940	.02991	6.66695
.349	6.291	.00567	.29957	.00642	-.00338	-.00273	.00001	-.00788	.29706	.03921	7.37571
.349	8.364	.00597	.39806	-.00300	-.00457	-.00209	-.00015	-.00767	.39426	.05494	7.17682
.349	10.465	.00795	.51011	-.00847	-.00662	-.00237	-.00027	-.01005	.50317	.08433	5.96694
.349	12.554	.00742	.62068	-.00994	-.00693	-.00289	.00022	-.01123	.60800	.12522	4.85558
.350	14.643	.01031	.71234	-.01332	-.00629	-.00417	-.00062	-.01221	.69262	.16699	4.14772
.350	16.736	.01083	.81081	-.01467	-.00470	-.00921	-.00146	-.00970	.78569	.21943	3.55773
.350	18.766	.01099	.84705	-.00757	-.00278	-.00275	.00144	-.02147	.80446	.26533	3.03187
.350	20.837	.01482	.92924	-.00826	-.00223	-.00104	.00134	-.02669	.87140	.32282	2.69937
.350	GRADIENT	.00102	.04347	-.00074	-.00022	.00010	-.00019	-.00065	.04308	.00121	1.57778

RUN NO. 104/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.798	-2.101	-.00268	-.07551	.01838	-.00311	-.00296	.00121	-.00279	-.07479	.02114	-3.53814
.799	.060	.00379	.02882	.02064	-.00477	-.00289	.00094	-.00647	.02880	.02067	1.39345
.800	2.203	.00826	.12698	.01917	-.00617	-.00254	.00066	-.00864	.12615	.02404	5.24793
.798	4.381	.01078	.23957	.01346	-.00716	-.00274	.00047	-.00929	.23784	.03171	7.49939
.799	6.565	.01232	.35983	.00686	-.00920	-.00300	-.00027	-.00805	.35669	.04796	7.43691
.799	8.714	.01141	.44364	.01186	-.00970	-.00125	.00101	-.01245	.43672	.07894	5.53233
.799	10.873	.01272	.54908	.01385	-.00970	-.00185	.00102	-.01351	.53661	.11718	4.57955
.799	13.068	.01631	.67025	.01219	-.01181	-.00259	.00057	-.01453	.65013	.16343	3.97817
.800	15.260	.02196	.80061	.00587	-.01420	-.00195	.00109	-.02021	.77054	.21927	3.51180
.799	17.390	.02616	.83029	.01385	-.00302	.00323	.000327	-.03297	.78825	.26123	3.01751
.799	19.444	.02660	.86651	.02628	-.00152	-.00206	-.00065	-.01814	.80835	.31323	2.58069
.799	21.536	.02647	.91176	.03131	-.00127	-.00361	-.00148	-.01506	.83661	.36381	2.29956
.799	GRADIENT	.00198	.04833	-.00075	-.00063	.00005	-.00012	-.00100	.64796	.00163	1.71175

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWL VFB)

(RP3004) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA =
 LAMCAF =
 EDPLAP =

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMCAF = 70.000 ELEVTR = .000
 EDPLAP = .000 RUFLR = .000

RUN NO. 103/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.160	-.00558	-.08297	.02496	-.00548	-.00266	.00196	-.00413	-.08197	.02807	-2.92070
.899	.021	.00208	.02327	.02603	-.00876	-.00229	.00129	-.00639	.02526	.02804	.97012
.900	2.209	.00749	.13459	.02689	-.01139	-.00159	.00122	-.00961	.13345	.03206	4.16240
.899	4.433	.00963	.25548	.02793	-.01310	-.00221	.00147	-.01200	.25310	.04061	6.23209
.899	6.634	.01247	.35771	.02704	-.01158	-.00451	.00098	-.01194	.35300	.06123	5.76502
.899	8.813	.01401	.46533	.02193	-.01326	-.00103	.00138	-.01455	.45648	.09296	4.91025
.900	10.979	.01371	.56065	.02601	-.01366	-.00269	.00142	-.01456	.54543	.13231	4.12224
.900	13.162	.01637	.66943	.02812	-.01901	-.00262	.00158	-.01701	.64544	.17981	3.58948
.900	15.379	.02097	.78792	.02740	-.01720	-.00206	.00164	-.02041	.75244	.23538	3.19669
.899	17.599	.02501	.90081	.02591	-.01846	-.00133	.00037	-.01833	.85081	.29707	2.85406
.900	19.715	.02938	.92639	.03953	-.00846	-.00133	.00031	-.02129	.85876	.34972	2.45559
.900	21.819	.03125	.98689	.04633	-.00824	-.00215	-.00097	-.01783	.89897	.40982	2.19358
GRADIENT		.00232	.05120	-.00051	-.00116	.00009	-.00007	-.00122	.05069	.00199	1.39444

RUN NO. 102/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.180	-.00939	-.12479	.06087	.00613	-.00336	.00264	-.00482	-.12238	.06558	-1.86634
.980	.023	-.00112	-.00024	.06332	-.00094	-.00274	.00244	-.00890	-.00226	.06332	-.00418
.980	2.215	.00396	.11408	.06229	-.00666	-.00214	.00241	-.01181	.11159	.06666	1.67403
.981	4.443	.00621	.25076	.05773	-.01371	-.00141	.00248	-.01342	.24553	.07698	3.18952
.981	6.681	.00767	.40439	.05449	-.02444	-.00088	.00268	-.01509	.39531	.10116	3.90761
.980	8.915	.00922	.54632	.05520	-.03346	-.00176	.00302	-.01739	.53117	.13920	3.81598
.980	11.136	.01081	.68896	.05831	-.04315	-.00230	.00312	-.01878	.66473	.19028	3.49339
.981	13.348	.01647	.83282	.06097	-.05340	-.00113	.00288	-.02134	.79625	.25159	3.16485
.980	15.547	.02117	.95374	.06302	-.05843	-.00137	.00256	-.02309	.90196	.31634	2.85124
.980	17.774	.02513	1.07044	.06385	-.06134	-.00144	.00275	-.02643	.99985	.38758	2.57986
.980	19.989	.03028	1.18273	.06299	-.06301	-.00004	.00305	-.03106	1.08995	.46349	2.35160
.981	22.152	.02681	1.19511	.05960	-.04466	-.00099	.00443	-.03454	1.08442	.50384	2.14382
GRADIENT		.00235	.05626	-.00048	-.00296	.00029	-.00002	-.00130	.05511	.00170	.76351

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SQ.IN. YMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000
 LARCAF = 70.000
 BDFLAP = .000

WANGNO = 1.000
 ELEVTE = .000
 RUFLR = .000

RUN NO. 101/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.176	-.00787	-.11071	.06843	.00632	-.00200	.00188	-.00329	-.10804	.07259	-1.48837
1.200	.043	.00044	.00941	.07127	-.00236	-.00132	.00169	-.00688	.00935	.07128	.13121
1.200	2.223	.00596	.12102	.07084	-.00978	-.00110	.00158	-.00931	.11818	.07548	1.56567
1.200	4.476	.00814	.25263	.06778	-.01883	-.00106	.00165	-.01070	.24657	.08729	2.82466
1.200	6.704	.00914	.38588	.06474	-.02773	-.00056	.00183	-.01196	.37569	.10935	3.43574
1.200	9.943	.01143	.51490	.06273	-.03531	-.00026	.00194	-.01363	.49889	.14202	3.51292
1.200	11.180	.01443	.63810	.06279	-.04148	.00013	.00191	-.01511	.61382	.18532	3.31223
1.200	13.419	.01869	.76140	.06268	-.04733	.00049	.00199	-.01777	.72607	.23766	3.03506
1.199	15.662	.02265	.87756	.06141	-.05175	.00026	.00198	-.01997	.82840	.29604	2.79825
1.201	17.883	.02597	.98564	.06139	-.05447	-.00027	.00218	-.02269	.91917	.36109	2.54555
1.201	20.090	.02783	1.06766	.06252	-.05228	.00061	.00235	-.02456	.98122	.42546	2.30625
1.201	21.220	.02846	1.11635	.06207	-.05261	.00039	.00241	-.02527	1.01819	.46193	2.20422
GRADIENT		.00242	.05429	-.00311	-.00374	.00015	-.00004	-.00111	.05298	.00219	.64918

(RF5P04) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMAVFB)

REFERENCE DATA

SREF = 175.7376 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 19.7156 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUDEFIR = .000

RUN NO. 105/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.539	166.16524	-.04266	-.06685	-.10521	-.03385
.349	.043	166.25861	-.04408	-.06825	-.10515	-.03287
.349	2.117	165.97756	-.04618	-.07124	-.10726	-.03244
.349	4.206	166.53963	-.04883	-.07532	-.11219	-.03474
.349	6.291	166.16524	-.04855	-.07740	-.11099	-.03529
.349	8.364	166.25885	-.05325	-.08406	-.11575	-.04104
.349	10.465	165.88442	-.06303	-.09721	-.12807	-.04980
.350	12.554	167.19538	-.07503	-.11601	-.15008	-.06138
.349	14.643	166.07187	-.08421	-.13691	-.16576	-.08006
.350	16.736	166.72727	-.10843	-.17795	-.18892	-.12960
.350	18.766	167.38178	-.14395	-.19916	-.18389	-.15250
.350	20.837	166.72680	-.18635	-.23863	-.21581	-.20389
GRADIENT		.04057	-.00399	-.00136	-.00111	-.00011

RUN NO. 104/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.101	310.66611	-.01051	-.04225	-.06229	-.01613
.799	.080	310.56147	-.01439	-.04432	-.06360	-.01794
.800	2.203	311.72903	-.01645	-.04625	-.06265	-.01742
.798	4.381	310.28028	-.01723	-.04794	-.06726	-.01666
.799	6.566	310.85505	-.02213	-.05531	-.07231	-.02411
.799	8.714	310.78791	-.04329	-.07864	-.09912	-.03954
.799	10.873	311.01433	-.06674	-.10274	-.13176	-.05878
.799	13.068	310.81918	-.08947	-.14064	-.16171	-.09608
.800	15.260	311.28899	-.10817	-.16605	-.18233	-.11112
.799	17.380	311.06891	-.19178	-.24221	-.24938	-.18157
.799	19.444	311.30782	-.28670	-.36306	-.39530	-.29848
.799	21.536	310.83007	-.36859	-.44450	-.48418	-.37315
GRADIENT		-.00022	-.00103	-.00088	-.00065	-.00005



REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
PRFP = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LAMDAF = 70.000 ELEVTR = .000
EDFLAP = .000 RUFLR = .000

RUN NO. 003/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.160	355.53552	-.00440	-.01672	-.00688	-.01315
.899	.021	354.85880	-.00643	-.02056	-.01137	-.01610
.900	2.209	355.45783	-.01770	-.02904	-.02240	-.02619
.899	4.433	354.81327	-.01208	-.04997	-.05470	-.00799
.899	6.634	355.09192	-.02630	-.07326	-.08240	-.03724
.899	8.813	354.74884	-.05326	-.10027	-.10189	-.04831
.900	10.979	355.31157	-.10190	-.16468	-.17768	-.09884
.900	13.162	355.51725	-.14110	-.23450	-.22421	-.15700
.900	15.379	355.17443	-.17646	-.25894	-.26906	-.17942
.899	17.599	354.75378	-.24222	-.29360	-.27976	-.26127
.900	19.715	355.26125	-.39449	-.43646	-.41055	-.40992
.900	21.819	355.28860	-.47821	-.55278	-.54778	-.48546
GRADIENT		-.07150	-.00156	-.00493	-.00677	-.00726

RUN NO. 102/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.180	385.49247	-.14077	-.15515	-.15031	-.15209
.980	.023	385.46134	-.14254	-.15278	-.15894	-.15676
.980	2.215	385.46134	-.14546	-.15050	-.16766	-.16298
.981	4.443	385.40109	-.15788	-.16078	-.18132	-.17494
.981	6.681	385.81245	-.18244	-.18290	-.20685	-.19940
.980	8.915	385.49164	-.22718	-.22682	-.24822	-.24067
.980	11.136	385.18681	-.28523	-.28561	-.30578	-.29790
.981	13.348	385.46562	-.33323	-.33555	-.36075	-.35068
.980	15.547	385.01195	-.36724	-.36830	-.40284	-.39350
.980	17.774	385.43104	-.41767	-.41776	-.44195	-.43523
.980	19.989	385.25272	-.45282	-.47252	-.46251	-.46051
.981	22.152	385.55704	-.51848	-.52843	-.53450	-.53194
GRADIENT		-.01244	-.00246	-.00767	-.00461	-.00339



DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SUIPS) (BWAVFB)

(RP5P04) (19 MAY 73)

PAGE 24

REFERENCE DATA

SREF = 173.7376 SQ. IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 70.000 ELEVTR = .000
BDFLAP = .000 RUDEFLE = .000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 101/ 0 RN/L = 2.11

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.176	440.61608	-20990	-21749	-21338	-20948
1.100	.043	440.81759	-22627	-23085	-22899	-22379
1.200	2.223	440.76722	-23119	-23501	-23753	-23341
1.200	4.476	440.61608	-23133	-22635	-24137	-23904
1.200	6.704	440.56569	-24031	-23377	-25319	-25174
1.200	8.943	440.66058	-23281	-24908	-26676	-26511
1.200	11.180	440.66058	-27010	-26463	-28348	-28197
1.200	13.419	440.63921	-29627	-29351	-30997	-30931
1.199	15.662	440.38716	-31054	-31798	-32458	-32335
1.201	17.883	441.01908	-34301	-35943	-34918	-35025
1.201	20.090	441.01908	-39174	-40748	-39384	-3964
1.201	21.220	440.96871	-42196	-43514	-42710	-42837
1.201	GRADIENT	-0.0236	-0.0320	-0.0138	-0.0418	-0.0444

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

PAGE 25

(RP5005) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM4VFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 19.7156 INCHES ZMRP = .0000 INCHES
SCALE = .0:88 SCALE

BETA = .000 WINGNO = 1.000
LANDAF = 75.000 ELEVTR = .000
BDFLAP = .000 RUDFLR = .000

RUN NO. 100/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.040	-.00191	-.07067	.01885	-.00274	-.00316	.00108	-.00164	-.06996	.02136	-3.27545
.349	.040	.00308	.02174	.02145	-.00313	-.00293	.00068	-.00689	.02172	.02147	1.01183
.350	2.112	.00469	.11532	.01984	-.00301	-.00232	.00008	-.00672	.11451	.02408	4.75596
.350	4.193	.00577	.20803	.01463	-.00261	-.00283	.00014	-.00847	.20441	.02966	6.89233
.350	6.286	.00553	.29919	.00588	-.00225	-.00265	.00015	-.00819	.29675	.03860	7.68851
.350	8.376	.00637	.40348	-.00309	-.00261	-.00239	-.00008	-.00850	.39962	.05571	7.17274
.350	10.461	.00694	.51684	-.00688	-.00399	-.00261	.00020	-.01042	.50950	.08708	5.85089
.350	12.556	.00816	.62083	-.00895	-.00265	-.00129	.00026	-.01247	.60793	.12623	4.81612
.350	14.670	.01035	.73970	-.01398	-.00263	-.00098	.00038	-.01613	.71913	.17380	4.13779
.350	16.784	.01268	.89673	-.01984	-.00682	-.00209	.00131	-.02330	.86426	.23995	3.60178
.349	18.877	.01610	.98812	-.02351	-.00234	-.00618	.00124	-.03291	.94258	.29745	3.16890
.349	20.942	.01283	1.03165	-.02277	.00700	-.01085	-.00196	-.01115	.97164	.34747	2.79630
GRADIENT		.00119	.04447	-.00069	.00002	.00007	-.00016	-.00098	.04409	.00132	1.64874

RUN NO. 99/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.117	-.00311	-.07659	.01827	-.00383	-.00322	.00136	-.00305	-.07586	.02109	-3.59771
.799	.047	.00313	.02739	.02033	-.00493	-.00276	.00089	-.00578	.02737	.02035	1.34501
.799	2.210	.00767	.13023	.01905	-.00591	-.00282	.00074	-.00852	.12940	.02406	5.37782
.798	4.375	.00939	.23879	.01303	-.00614	-.00291	.00054	-.00906	.23710	.03121	7.59679
.799	6.568	.01254	.36174	.00719	-.00786	-.00312	-.00012	-.00880	.35855	.04852	7.39025
.800	8.744	.01244	.46422	.00912	-.00806	-.00365	-.00022	-.00837	.45744	.07959	5.74727
.800	10.903	.01347	.55289	.01510	-.00564	-.00257	.00034	-.01137	.54006	.11940	4.52299
.799	13.082	.01758	.66462	.01562	-.00629	-.00191	.00053	-.01531	.64384	.16565	3.88670
.800	15.273	.02107	.80407	.01354	-.01130	-.00232	.00046	-.01780	.77210	.22487	3.43360
.799	17.515	.02556	.96292	.00987	-.01418	-.00148	.00059	-.02197	.91531	.25922	3.05903
.799	19.677	.02959	1.03227	.01043	-.00520	-.00755	-.00460	-.00501	.96848	.35741	2.70970
.799	21.694	.00700	1.00308	.02390	.00660	-.01828	-.00537	.01554	.92323	.39291	2.34972
GRADIENT		.00194	.04848	-.00079	-.00037	.00005	-.00012	-.00096	.04810	.00157	1.73832

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

PAGE 26

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (NAVFB)

(RP5005) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 19.7156 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 98/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.970	-2.179	-.00467	-.08626	.02441	-.00598	-.00305	.00188	-.00438	-.08527	.02767	-3.08102
.970	.019	.00258	.02308	.02606	-.00857	-.00262	.00137	-.00756	.02307	.02607	.88501
.970	2.214	.00737	.13584	.02604	-.01087	-.00192	.00130	-.00984	.13473	.03127	4.30839
.970	4.428	.00963	.25415	.02105	-.01174	-.00216	.00128	-.01125	.25177	.04061	6.19983
.970	6.632	.01140	.35523	.02118	-.00948	-.00359	.00119	-.01205	.35041	.06206	5.64636
.970	8.841	.01197	.48436	.02232	-.01310	-.00476	.00164	-.01424	.47518	.09649	4.92437
.970	11.034	.01480	.56576	.02513	-.00825	-.00213	.00148	-.01548	.55049	.13294	4.14080
.970	13.199	.01722	.66109	.02722	-.01066	-.00246	.00150	-.01726	.63741	.17745	3.59194
.970	15.416	.02065	.78446	.02844	-.01194	-.00266	.00105	-.01788	.74867	.23596	3.17294
.970	17.679	.02671	.93602	.02457	-.01948	-.00466	.00072	-.02086	.90341	.31374	2.87949
.970	19.878	.02793	1.02919	.03182	-.01010	-.00643	-.00315	-.00668	.95705	.37987	2.51943
.970	21.361	.01733	1.03697	.04276	-.00110	-.01043	-.00257	-.00191	.94574	.42746	2.21246
.970	.00217	.00217	.00151	-.00046	-.00089	.00015	-.00008	-.00106	.00100	.00200	1.41975

RUN NO. 97/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.187	-.00781	-.12545	.05930	.00543	-.00337	.00265	-.00579	-.12309	.06404	-1.92204
.980	.019	-.00089	-.00169	.06186	-.00104	-.00285	.00252	-.00937	-.00171	.06186	-.02765
.980	2.212	.00378	.11038	.06034	-.00670	-.00224	.00241	-.01172	.10797	.06456	1.67248
.980	4.445	.00572	.25478	.05650	-.01311	-.00155	.00252	-.01331	.24963	.07608	3.28136
.980	6.690	.00759	.40297	.05339	-.02256	-.00399	.00263	-.01485	.39400	.09997	3.94124
.980	8.922	.01016	.55219	.05639	-.03114	-.00137	.00278	-.01703	.53673	.14155	3.79183
.980	11.147	.01280	.69469	.05995	-.04039	-.00206	.00270	-.01834	.67000	.19312	3.46937
.980	13.380	.01670	.83293	.06107	-.04730	-.00216	.00278	-.02111	.79615	.25229	3.15572
.980	15.603	.02183	.95045	.06133	-.04938	-.00235	.00251	-.02330	.89920	.31375	2.86593
.980	17.845	.02313	1.06405	.06138	-.04893	-.00358	.00295	-.02599	.99405	.38450	2.58533
.980	20.056	.03026	1.18312	.06224	-.05196	-.00285	.00130	-.02418	1.09003	.46420	2.34821
.980	22.255	.03456	1.23956	.05858	-.03831	-.00229	.00053	-.02420	1.12411	.52329	2.14813
.980	.00205	.00205	.00672	-.00045	-.00274	.00027	-.00002	-.00113	.00560	.00176	.78358

DATE 07 JUL 73 TADULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWLVB)

(RPS005) (19 MAY 73)

REFERENCE DATA

SREF = 173.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 1.000
 LANDAF = 75.000 ELEVTR = .000
 BDPLAP = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 96/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.211	-.00794	-.11508	.06759	.00574	-.00235	.00181	-.00300	-.11239	.07198	-1.56144
1.199	.026	.00031	.00644	.07068	-.01239	-.00165	.00160	-.00646	.00641	.07068	.09072
1.199	2.230	.00550	.11785	.07019	-.00916	-.00119	.00164	-.00930	.11503	.07472	1.53944
1.200	4.465	.00690	.25176	.06770	-.01754	-.00073	.00184	-.01082	.24573	.08709	2.82160
1.200	6.714	.00863	.38132	.06474	-.02525	-.00033	.00188	-.01187	.37114	.10887	3.40889
1.200	8.952	.01039	.51215	.06304	-.03204	.00000	.00197	-.01320	.49610	.14196	3.49458
1.200	11.202	.01325	.63844	.06245	-.03758	.00012	.00215	-.01544	.61415	.18529	3.31458
1.200	13.462	.01661	.76265	.06262	-.04232	-.00022	.00193	-.01751	.72712	.23844	3.04943
1.200	15.703	.02255	.88577	.06169	-.04662	.00069	.00221	-.02080	.83601	.29913	2.79480
1.199	17.936	.02592	.99722	.06056	-.04982	.00078	.00237	-.02341	.93011	.36472	2.55022
1.199	20.172	.02853	1.10227	.06026	-.05069	.00003	.00257	-.02584	1.01388	.43668	2.32178
1.199		.03224		-.00001	-.00345	.00024	.00001	-.00118	.05321	.00222	.65662

GRADIENT

(RPSP05) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B41VFB)

REFERENCE DATA

SREF = 175.7376 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 19.7156 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LANDAF = 75.000 ELEVTR = .000
 EDPLAP = .000 RUOFLR = .000

RUN NO. 100/0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.040	166.25767	-.04119	-.06490	-.10564	-.03335
.349	.040	166.35127	-.04213	-.06678	-.10702	-.03235
.350	2.112	166.63274	-.04447	-.07145	-.10877	-.03328
.350	4.193	166.72856	-.04781	-.07476	-.11455	-.03471
.350	6.286	166.91396	-.04969	-.07802	-.11867	-.03659
.350	8.376	167.10086	-.05300	-.08461	-.12285	-.04420
.350	10.461	167.00705	-.05975	-.09658	-.13107	-.05427
.350	12.556	166.91396	-.07083	-.11333	-.14553	-.06818
.350	14.673	166.63322	-.07720	-.12021	-.15211	-.08220
.350	16.784	166.63322	-.09645	-.12451	-.15598	-.10713
.349	18.877	166.44604	-.12209	-.15193	-.14256	-.14134
.349	20.942	166.35244	-.16700	-.22336	-.20426	-.19233
	GRADIENT	.08126	-.00107	-.00165	-.00143	-.00022

RUN NO. 99/0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.117	311.71645	-.00796	-.03884	-.06060	-.01383
.799	.047	311.21564	-.01285	-.04323	-.06324	-.01896
.799	2.210	311.38745	-.01233	-.04346	-.05935	-.01613
.798	4.375	310.22555	-.01801	-.05051	-.07475	-.01897
.799	6.568	311.24699	-.01748	-.05218	-.07669	-.02075
.800	8.744	311.44197	-.03576	-.07390	-.09149	-.04153
.800	10.903	311.44197	-.06692	-.11098	-.13288	-.07155
.799	13.082	311.39372	-.09680	-.12711	-.12647	-.10722
.800	15.273	311.64941	-.13277	-.14083	-.14231	-.13639
.799	17.515	311.30782	-.15479	-.16245	-.16791	-.16167
.799	19.677	311.02686	-.22789	-.26323	-.25044	-.24196
.799	21.694	310.86130	-.35731	-.44504	-.43630	-.39477
	GRADIENT	-.19878	-.00117	-.00163	-.00178	-.00058



DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RPSPD5) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B-1 VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LAWDAF = 75.000 ELEVTR = .000
BDPLAF = .000 RUOFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ. IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

RUN NO. 98/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.179	355.53552	-.00958	-.02008	-.01541	-.01787
.900	.019	355.04638	-.00936	-.02167	-.01497	-.01857
.899	2.214	355.33414	-.01545	-.03040	-.02286	-.02620
.898	4.428	353.87438	-.01369	-.04874	-.06005	-.00373
.899	6.632	354.90427	-.02902	-.06836	-.08696	-.02533
.900	8.841	355.56292	-.05289	-.11484	-.11067	-.07765
.900	11.034	355.41665	-.10706	-.15321	-.18800	-.09701
.899	13.199	354.92244	-.14020	-.22322	-.23293	-.14803
.900	15.416	355.38014	-.17951	-.26821	-.26553	-.19258
.899	17.679	355.00511	-.20116	-.25458	-.28137	-.20539
.900	19.878	355.63148	-.35845	-.38606	-.36915	-.36209
.899	21.961	355.06878	-.49251	-.54011	-.51497	-.50849
	GRADIENT	-.21356	-.00084	-.00430	-.00645	.00159

RUN NO. 97/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.187	385.73985	-.14154	-.15612	-.15274	-.15327
.981	.019	385.41626	-.14267	-.15415	-.15948	-.15689
.980	2.212	385.33967	-.14242	-.14893	-.16651	-.16078
.980	4.445	385.33967	-.15595	-.15948	-.18147	-.17447
.980	6.690	385.24787	-.17549	-.17724	-.20432	-.19582
.979	8.922	385.14034	-.23019	-.23156	-.25561	-.24783
.980	11.147	385.23223	-.28308	-.28471	-.30529	-.29741
.980	13.369	385.23223	-.32804	-.33102	-.35414	-.34449
.981	15.603	385.40140	-.36355	-.36402	-.39789	-.38691
.980	17.845	385.04953	-.40654	-.40898	-.43481	-.42768
.980	20.056	385.29378	-.44194	-.44497	-.48199	-.47207
.980	22.255	385.23223	-.48294	-.50368	-.51690	-.50587
.980	GRADIENT	-.05775	-.00195	-.00023	-.00420	-.00306

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

PAGE 30

(RP5PD5) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWVFB)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0100 SCALE

XMPF = 16.8633 INCHES
YMPF = .0000 INCHES
ZMPF = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 75.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

RUN NO. 96/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CPB1	CPB2	CFC1	CFC2
1.199	-2.211	440.80575	-20845	-21758	-21528	-21048
1.199	.026	440.80575	-22146	-22824	-22582	-22045
1.200	2.230	440.45896	-22881	-23247	-23698	-23140
1.200	4.465	440.84667	-23423	-22755	-24711	-24405
1.200	6.714	440.84667	-24078	-23442	-25619	-25384
1.200	8.952	440.14118	-25561	-25168	-27194	-26900
1.200	11.202	440.81177	-27317	-26930	-28908	-28593
1.200	13.462	440.81177	-29755	-29496	-31251	-31024
1.200	15.703	440.92427	-32217	-33798	-33727	-33420
1.199	17.936	440.90658	-34296	-35253	-35440	-35039
1.199	20.172	440.86379	-36127	-39184	-39410	-38928
GRADIENT		-0.00994	-0.00367	-0.00154	-0.00480	-0.00502

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMAVFB)

(RP5006) / 19 MAY 73

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

BETA =
 LAMDAF =
 BDFLAP =

WINGNO = 1.000
 ELEVTR = .000
 RUFLR = .000

PARAMETRIC DATA

RUN NO. 95/0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.063	-.00152	-.07278	.01926	-.00328	-.00326	.00123	-.00274	-.07203	.02187	-3.29389
.350	.020	.00220	.02165	.02156	-.00312	-.00288	.00079	-.00610	.02165	.02156	1.00381
.350	2.103	.00449	.11447	.01999	-.00253	-.00262	.00046	-.00755	.11366	.02418	4.70148
.350	4.181	.00513	.20067	.01493	-.00168	-.00262	.00027	-.00809	.19905	.02952	6.74340
.350	6.304	.00589	.30385	.00637	-.00070	-.00274	.00020	-.00891	.30132	.03969	7.59172
.350	8.385	.00632	.40764	.00100	-.00069	-.00226	.00012	-.00923	.40343	.05845	6.90218
.349	10.469	.00725	.52452	-.00460	-.00010	-.00217	.00036	-.01153	.51662	.09078	5.69105
.349	12.581	.01017	.63790	-.00653	.00109	-.00131	.00043	-.01599	.62401	.13257	4.70794
.349	14.681	.01144	.76364	-.01061	.00112	-.00185	.00084	-.01950	.74140	.18327	4.04535
.349	16.799	.01460	.89028	-.01405	.00079	-.00253	.00079	-.02404	.85635	.24385	3.51176
.349	18.962	.01779	1.08679	-.02360	-.00579	-.00317	.00140	-.03132	1.03549	.33082	3.13005
.349	21.004	.01897	1.05793	-.01930	.01649	-.00726	-.00102	-.02791	.99456	.36118	2.75365
GRADIENT		.00107	.04387	-.00070	.00026	.00010	-.00015	-.00086	.04349	.00123	1.62443

RUN NO. 94/0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.139	-.00287	-.07686	.01810	-.00422	-.00312	.00134	-.00317	-.07613	.02095	-3.63289
.799	.032	.00277	.03015	.02056	-.00495	-.00278	.00100	-.00596	.03014	.02058	1.46436
.800	2.216	.00812	.13267	.01906	-.00562	-.00267	.00083	-.00920	.13184	.02417	5.45364
.800	4.389	.00946	.24385	.01343	-.00534	-.00200	.00069	-.00968	.24211	.03205	7.55415
.800	6.600	.01276	.37173	.00776	-.00684	-.00330	-.00014	-.00885	.36837	.05043	7.50455
.801	8.762	.01371	.47317	.01014	-.00585	-.00324	.00011	-.01060	.46610	.08211	5.67674
.800	10.929	.01434	.56038	.01598	-.00311	-.00294	.00050	-.01268	.54718	.12194	4.48739
.799	13.107	.01822	.67730	.01789	-.00330	-.00328	.00020	-.01452	.65559	.17102	3.83541
.799	15.325	.02271	.82838	.01479	-.00662	-.00346	.00023	-.01820	.79501	.23320	3.40907
.799	17.624	.02825	1.01177	.00951	-.01262	-.00280	.00059	-.02408	.96141	.31539	3.04834
.799	19.813	.03167	1.13979	.00658	-.01245	-.00364	-.00028	-.02360	1.07009	.39252	2.72820
.799	21.958	.03163	1.16485	.00835	.00432	-.00604	-.00186	-.01772	1.07723	.44330	2.43001
GRADIENT		.00195	.04891	-.00071	-.00019	.00002	-.00010	-.00105	.04853	.00169	1.72500

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BMAVFB)

(RP5006) (19 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 175.7376 SQ.IN. XREF = 16.8633 INCHES
LREF = 25.5100 INCHES YREF = .0000 INCHES
BREF = 19.7156 INCHES ZREF = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 1.000
LAMDAF = 78.000 ELEVTR = .000
BDFLAF = .000 RUFFLR = .000

RUN NO. 93/ 0 RVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.177	-.00584	-.08362	.02475	-.00631	-.00275	.00205	-.00430	-.08262	.02791	-2.96350
.899	.001	.00242	.02502	.02730	-.00868	-.00216	.00158	-.00776	.02502	.02730	.91644
.901	2.210	.00738	.13697	.02697	-.01031	-.00136	.00135	-.01003	.13582	.03222	4.21363
.900	4.438	.01045	.25221	.02237	-.00986	-.00153	.00382	-.00997	.24972	.04182	5.97107
.899	6.622	.01155	.36072	.02164	-.00940	-.00486	.00151	-.01340	.35582	.06310	5.63935
.899	8.844	.01413	.47724	.02287	-.00883	-.00592	.00064	-.01171	.46805	.09597	4.87680
.899	11.027	.01546	.56065	.02737	-.00428	-.00281	.00109	-.01441	.54506	.13411	4.06435
.900	13.292	.01926	.68382	.02895	-.00380	-.00340	.00256	-.01490	.65884	.18539	3.55385
.900	15.515	.02250	.84822	.02843	-.01230	-.00398	.00124	-.01986	.80971	.25429	3.18418
.899	17.752	.02735	.98315	.02762	-.01587	-.00346	.00101	-.02242	.92792	.32606	2.84584
.900	19.965	.03254	1.07438	.03035	-.00946	-.00466	-.00121	-.01750	.99945	.39537	2.52787
.900	22.140	.02779	1.13144	.03558	-.00330	-.00542	.00059	-.01965	1.03480	.45938	2.25219
.899	.00242	.08076	-.00034	-.00034	-.00053	.00020	-.00018	-.00087	.05023	.00212	1.36336

RUN NO. 92/ 0 RVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.206	-.00786	-.12406	.05916	.00505	-.00345	.00274	-.00610	-.12170	.06389	-1.90464
.980	.014	-.00061	.00056	.06130	-.00101	-.00279	.00246	-.00930	.00054	.06130	.00888
.981	2.215	.00291	.11540	.06081	-.00557	-.00216	.00254	-.01169	.11296	.06522	1.73195
.981	4.443	.00635	.25416	.05686	-.01175	-.00165	.00256	-.01384	.24899	.07638	3.25975
.980	6.693	.00768	.40621	.05487	-.00222	-.00112	.00270	-.01520	.39705	.10183	3.89950
.980	8.938	.01005	.55162	.05691	-.02722	-.00171	.00294	-.01758	.53608	.14192	3.77736
.980	11.200	.01387	.69967	.06017	-.03371	.00007	.00291	-.01979	.67466	.19493	3.46108
.981	13.445	.01824	.83595	.06314	-.04024	.00013	.00315	-.02348	.79836	.25578	3.12126
.980	15.693	.02054	.94966	.06257	-.03895	-.00575	.00348	-.02633	.89739	.31694	2.83141
.981	17.896	.02614	1.06172	.06347	-.03822	-.00126	.00288	-.02758	.99084	.38666	2.58254
.981	20.138	.02874	1.19113	.06272	-.04139	-.00435	.00242	-.02762	1.09672	.46896	2.33859
.980	22.359	.02715	1.27951	.05961	-.03507	-.00966	.00283	-.02852	1.16065	.54186	2.14198
.980	.00218	.05642	-.00033	-.00033	-.00248	.00027	-.00002	-.00116	.05529	.00187	.77729

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BVAIFB) (RP5006) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 19.7156 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .0000 WINGNO = 1.000
 LAMDAF = 73.000 ELEVTR = .000
 BDPLAF = .0000 RUFLR = .000

RUN NO. 91/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.199	-.00676	-.11280	.06810	.00533	-.00223	.00191	-.00399	-.11010	.07246	-1.51953
1.200	.018	.00050	.00672	.07132	-.00225	-.00167	.00175	-.00715	.00670	.07132	.09388
1.200	2.254	.00565	.12241	.07107	-.00879	-.00136	.00181	-.01003	.11952	.07583	1.57607
1.200	4.474	.00691	.25118	.06972	-.01617	-.00094	.00169	-.01100	.24506	.08811	2.78140
1.200	6.725	.00921	.38455	.06826	-.02347	-.00037	.00200	-.01268	.37415	.11084	3.37565
1.200	8.969	.01082	.51492	.06445	-.02944	.00037	.00210	-.01392	.49857	.14394	3.46368
1.200	11.245	.01521	.64258	.06411	-.03442	.00032	.00201	-.01594	.61774	.18819	3.28255
1.200	13.496	.02007	.76868	.06405	-.03839	.00027	.00195	-.01835	.73250	.24167	3.05098
1.200	15.736	.02441	.88865	.06324	-.04190	.00054	.00201	-.02106	.83818	.30191	2.77628
1.200	17.989	.02869	1.00583	.06218	-.04409	.00097	.00200	-.02350	.93745	.36978	2.53518
1.200	20.236	.03245	1.11176	.06139	-.04375	.00069	.00219	-.02653	1.02190	.44216	2.31117
1.200		.00207	.05426	.00006	-.00319	.00019	.00000	-.00107	.05294	.00231	.64637

GRADIENT

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&VFS)

(RP5P06) (19 MAY 73)

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
LANDAF = 78.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

RUN NO. 95/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFE2	CFC1	CFC2
.349	-2.063	166.25885	-.04118	-.06538	-.10800	-.02998
.350	.020	167.00753	-.04149	-.06748	-.10897	-.03178
.350	2.103	167.00753	-.04389	-.06987	-.10849	-.03082
.350	4.181	166.63322	-.04687	-.07384	-.11401	-.03232
.350	6.304	166.63322	-.05024	-.07814	-.11930	-.03616
.350	8.385	166.63322	-.05361	-.08484	-.12026	-.04287
.349	10.469	166.53939	-.05653	-.09493	-.11670	-.05681
.349	12.581	166.35244	-.07635	-.09982	-.09783	-.08569
.349	14.681	166.53987	-.10364	-.11454	-.11504	-.11150
.349	16.799	166.44604	-.11871	-.13183	-.13482	-.12885
.349	18.962	166.25885	-.10581	-.15018	-.14316	-.13620
.349	21.004	166.44651	-.16640	-.22850	-.20939	-.19222
GRADIENT		.05402	-.00794	-.00133	-.00284	-.00029

RUN NO. 94/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.139	310.87382	-.01052	-.04223	-.06333	-.01613
.799	.032	310.84879	-.01207	-.04301	-.06405	-.01742
.800	2.216	311.36235	-.01207	-.04322	-.05960	-.01485
.800	4.389	311.36235	-.01413	-.04654	-.06757	-.01459
.800	6.600	311.57608	-.01851	-.05215	-.06702	-.02357
.801	8.762	311.83787	-.03626	-.07281	-.08419	-.04381
.800	10.929	311.49646	-.06562	-.10586	-.11279	-.07437
.799	13.107	310.80042	-.11914	-.12297	-.12666	-.10126
.799	15.325	310.70827	-.13828	-.14326	-.14886	-.14087
.799	17.624	311.22191	-.14554	-.15455	-.16768	-.16094
.799	19.813	311.02686	-.18249	-.19690	-.21283	-.20145
.799	21.958	311.13601	-.28167	-.30924	-.30439	-.29068
GRADIENT		.09097	-.00050	-.00060	-.00010	.00033



DATE 07 JUL 73 TABULATED SOURCE DATA-LATC 644 (RP5PD6) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMAVFB)

PARAMETRIC DATA
BETA = .000 WINGNO = 1.000
LANDAF = 78.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

REFERENCE DATA

SREF = 175.7376 SQ.IN.
LREF = 25.5100 INCHES
BREF = 19.7156 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

RUN NO.	93/ 0	RN/L = 1.99	GRADIENT INTERVAL = -5.00/ 5.00			
			CFB1	CFB2	CFC1	CFC2
MACH	ALPHA	Q (PSF)				
.900	-2.177	355.39840	-.00619	-.01963	-.01292	-.01585
.899	.001	355.22001	-.01161	-.02189	-.01788	-.01991
.901	2.210	355.62691	-.01950	-.03082	-.02687	-.02977
.900	4.438	355.45783	-.01409	-.05212	-.05189	-.00641
.899	6.622	354.55201	-.02633	-.08505	-.08521	-.04315
.899	8.844	355.05549	-.06627	-.11634	-.12862	-.08270
.899	11.027	354.72157	-.10793	-.16720	-.19534	-.09922
.900	13.292	355.25213	-.14141	-.22660	-.24193	-.15374
.900	15.515	355.38014	-.16573	-.26664	-.27790	-.20292
.899	17.752	354.84970	-.20778	-.32090	-.33766	-.23115
.900	19.965	355.35273	-.31761	-.32651	-.32907	-.32437
.899	22.140	354.96380	-.45509	-.49068	-.47269	-.46654
	GRADIENT	.02657	-.00143	-.00483	-.00572	-.00085

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	92/ 0	RN/L = 2.04	GRADIENT INTERVAL = -5.00/ 5.00			
			CFB1	CFB2	CFC1	CFC2
MACH	ALPHA	Q (PSF)				
.980	-2.206	385.29419	-.13830	-.15375	-.15013	-.15047
.980	.014	385.01924	-.13703	-.14816	-.15595	-.15213
.981	2.215	385.58417	-.14557	-.15166	-.16984	-.16289
.981	4.443	385.41658	-.15583	-.15897	-.18280	-.17479
.980	6.693	385.24787	-.18338	-.18468	-.21365	-.20349
.980	8.938	385.12574	-.23088	-.23269	-.25756	-.24896
.980	11.200	385.47028	-.28340	-.28361	-.30770	-.29817
.981	13.445	385.56899	-.33048	-.33059	-.35906	-.34881
.980	15.683	385.21709	-.36987	-.37241	-.39822	-.38932
.981	17.896	385.58384	-.41690	-.41994	-.44328	-.43430
.981	20.138	385.80067	-.44348	-.44627	-.48966	-.47105
.980	22.359	385.46176	-.47796	-.49402	-.51380	-.47338
	GRADIENT	.04195	-.00276	-.00087	-.00505	-.00378

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RF5F06) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B41VFB)

REFERENCE DATA

SREF = 175.7376 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 19.7156 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 1.000
 LAMDAF = 78.000 ELEVTR = .000
 SDFLAP = .000 RUDEFLR = .000

RUN NO. 91/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.199	440.45128	-23902	-21737	-21396	-20881
1.200	.018	440.57343	-22435	-23042	-22927	-22289
1.200	2.254	440.59476	-23058	-23354	-24040	-23519
1.200	4.474	440.56569	-23372	-22654	-24681	-24358
1.200	6.725	440.61608	-24446	-23846	-26043	-25808
1.200	8.969	440.55208	-25707	-25515	-27485	-27102
1.200	11.245	440.50168	-27783	-27577	-29576	-29080
1.200	13.496	440.60248	-30803	-30432	-32664	-32197
1.200	15.738	440.40679	-32760	-33751	-34365	-34057
1.200	17.989	440.33319	-35424	-36777	-36352	-35877
1.200	20.236	440.34279	-38813	-38877	-40264	-39835
GRADIENT		.01637	-38361	-38138	-40493	-40324

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

(RP5007) (19 MAY 73)

REFERENCE DATA

SREF = 171.4770 SQ.IN. XREF = 16.8633 INCHES
LREF = 25.5100 INCHES YREF = .0000 INCHES
BREF = 20.3597 INCHES ZREF = .0000 INCHES
SCALE = .0100 SCALE

BETA = .000 WINGNO = 2.000
LAMCAF = 46.800 ELEVTR = .000
BDELAP = .000 RUFLR = .000

PARAMETRIC DATA

RUN NO. 20/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.034	-.00168	-.05197	.01949	-.00310	-.00350	.00085	-.00108	-.05124	.02132	-2.40379
.350	.035	.00247	.04127	.02161	-.00356	-.00363	.00049	-.00545	.04126	.02164	1.90686
.350	2.105	.00465	.13457	.01972	-.00359	-.00360	.00052	-.00658	.13375	.02465	5.42649
.350	4.215	.00535	.23891	.01341	-.00352	-.00368	-.00011	-.00707	.23728	.03093	7.67139
.350	6.289	.00656	.33739	.00356	-.00343	-.00376	-.00022	-.00831	.33497	.04590	8.27160
.350	8.382	.00718	.44539	-.01143	-.00331	-.00349	-.00024	-.00917	.44229	.05362	8.24861
.350	10.472	.01008	.55733	-.02319	-.00315	-.00453	-.00164	-.00769	.55226	.07849	7.03598
.349	12.542	.00899	.64381	-.01271	-.00592	-.00473	-.00077	-.00983	.63121	.12740	4.95464
.349	14.591	.00842	.70379	-.00220	-.00669	-.00569	-.00010	-.01327	.68164	.17517	3.89126
.349	16.649	.00959	.76288	.00538	-.00774	-.00450	.00065	-.01668	.72945	.22375	3.26006
.348	18.677	.01043	.80506	.01495	-.00912	-.00320	.00103	-.01973	.75787	.27197	2.78663
.351	20.693	.01305	.82516	.02535	-.00963	-.00232	.00060	-.02183	.76297	.31530	2.41985
GRADIENT		.00112	.04641	-.00097	-.00006	-.00002	-.00016	-.00092	.04603	.00153	1.61998

RUN NO. 19/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.110	-.00310	-.05873	.01898	-.00483	-.00386	.00119	-.00248	-.05799	.02113	-2.74400
.799	.048	.00307	.04927	.02176	-.00569	-.00369	.00065	-.00495	.04925	.02181	2.25863
.799	2.240	.00924	.16682	.02007	-.00661	-.00392	.00039	-.00866	.16591	.02658	6.24206
.799	4.425	.01049	.28586	.01669	-.00743	-.00370	.00024	-.00890	.28372	.03870	7.33202
.799	6.609	.01137	.39530	.01767	-.00760	-.00274	.00039	-.01019	.39064	.06305	6.19584
.799	8.724	.01237	.47249	.02055	-.00726	-.00370	.00033	-.01075	.46391	.09198	5.04370
.799	10.849	.01356	.55425	.02541	-.00813	-.00357	.00036	-.01184	.53957	.12928	4.17375
.799	12.941	.01503	.61283	.03215	-.00840	-.00344	.00038	-.01313	.59006	.16857	3.50031
.799	15.032	.01684	.66828	.04031	-.00807	-.00366	.00049	-.01510	.63496	.21226	2.99143
.800	17.090	.01840	.69733	.04840	-.00605	-.00435	.00069	-.01528	.65232	.25119	2.59695
.799	19.153	.01922	.73972	.05533	-.00480	-.00389	.00089	-.01566	.68061	.29497	2.35742
.799	21.235	.02382	.78372	.05970	-.00458	-.00317	-.00088	-.01564	.70889	.33950	2.08802
GRADIENT		.00216	.05282	-.00079	-.00040	-.00001	-.00014	-.00105	.05239	.00264	1.56858

(RP5007) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BACVFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 23.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA =
 LAMDAF =
 BDFLAP =

WINGNO = 2.000
 ELEVTR = .000
 RUFLR = .000

PARAMETRIC DATA

RUN NO. 16/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.169	-.00728	-.07430	.02850	-.00714	-.00294	.00254	-.00549	-.07317	.03129	-2.33831
.899	.034	.00194	.03552	.03039	-.00811	-.00183	.00162	-.00766	.03550	.03041	1.16735
.900	2.243	.00756	.15764	.03044	-.00879	-.00297	.00113	-.00958	.15632	.03659	4.27255
.899	4.465	.01195	.27718	.02844	-.00797	-.00251	.00081	-.01121	.27413	.04993	5.48996
.898	6.664	.01310	.38699	.02872	-.00805	-.00336	.00125	-.01376	.38105	.07343	5.18928
.899	8.859	.01574	.50137	.03227	-.01175	-.00385	.00058	-.01284	.49042	.10910	4.49508
.900	10.984	.01744	.58063	.04072	-.01340	-.00408	-.00043	-.00994	.56223	.15061	3.73302
.898	13.108	.01884	.65489	.04681	-.01656	-.00288	.00024	-.01373	.62722	.19410	3.23137
.900	15.237	.02123	.73402	.05427	-.01912	-.00253	.00091	-.01818	.69395	.24527	2.82931
.899	17.337	.01914	.79317	.06247	-.01883	-.00388	.00132	-.01858	.73881	.29608	2.49534
.899	19.428	.02320	.83722	.06841	-.01848	-.00239	.00230	-.02556	.76679	.34299	2.23560
.899	21.495	.02590	.87788	.07180	-.01801	-.00322	.00001	-.01841	.79052	.38847	2.03496
GRADIENT		.00286	.05321	-.00201	-.00014	.00010	-.00026	-.00085	.05259	.00281	1.20210

RUN NO. 17/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	ON	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.182	-.00667	-.12344	.06857	.00625	-.00397	.00226	-.00388	-.12074	.07322	-1.64906
.980	.045	-.00019	.01706	.07118	-.00132	-.00386	.00215	-.00859	.01701	.07119	.23887
.980	2.262	.00673	.15827	.07090	-.00902	-.00375	.00187	-.01166	.15535	.07709	2.01517
.980	4.523	.00855	.32651	.07094	-.01945	-.00320	.00205	-.01354	.31990	.09646	3.31630
.979	6.752	.01121	.48023	.07141	-.02896	-.00212	.00175	-.01397	.46848	.12746	3.67566
.979	8.983	.01319	.61529	.07154	-.03564	-.00257	.00169	-.01496	.59657	.16673	3.57797
.981	11.198	.01747	.73750	.07271	-.04144	-.00327	.00127	-.01596	.70934	.21454	3.30630
.980	13.399	.02402	.86219	.07382	-.04794	-.00345	.00087	-.01854	.82162	.27161	3.02504
.980	15.596	.02873	.98449	.07345	-.05445	-.00361	.00063	-.02167	.92796	.33736	2.75066
.980	17.771	.03055	1.07832	.07710	-.05642	-.00393	.00075	-.02250	1.00334	.40254	2.49254
.979	19.877	.02496	1.13620	.08246	-.05421	-.00289	.00394	-.03211	1.04047	.46386	2.24306
.979	21.992	.01625	1.17555	.08621	-.05142	-.00186	.00484	-.03028	1.05772	.52016	2.03347
GRADIENT		.00262	.06678	.00031	-.00080	.00011	-.00004	-.00143	.06540	.00339	.74632



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TASULATED SOURCE DATA-LARC 644

(RP5007) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BW2VFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3397 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
LAWDAF = 46.800 ELEVTR = .000
SDFLAP = .000 RUDFLR = .000

PARAMETRIC DATA

RUN NO. 16/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.155	-.00670	-.09341	.07555	.00439	-.00304	.00125	-.00188	-.09050	.07901	-1.14545
1.199	.064	.00332	.03369	.07836	-.00418	-.00282	.00118	-.00654	.03361	.07839	.42869
1.199	2.282	.00779	.16649	.07976	-.01346	-.00257	.00135	-.00963	.16318	.08633	1.89019
1.199	4.535	.00991	.30811	.08043	-.02335	-.00217	.00145	-.01115	.30079	.10454	2.87716
1.200	6.762	.01109	.44383	.08033	-.03239	-.00223	.00161	-.01247	.43128	.13203	3.26659
1.199	8.903	.01231	.57286	.07928	-.04020	-.00164	.00188	-.01426	.55342	.16785	3.29715
1.199	11.232	.01437	.69770	.07894	-.04710	-.00212	.00222	-.01680	.66896	.21333	3.13586
1.200	13.454	.01675	.80912	.07800	-.05083	-.00316	.00250	-.01927	.76876	.26411	2.91072
1.199	15.668	.01984	.91561	.07695	-.05291	-.00471	.00263	-.02164	.86081	.32136	2.67863
1.199	17.862	.02397	1.00168	.07810	-.05294	-.00329	.00243	-.02323	.92944	.38157	2.43580
1.199	20.057	.02462	1.08351	.07867	-.05293	-.00349	.00254	-.02425	.99162	.44550	2.22409
1.199	21.501	.02470	1.13697	.07902	-.05360	-.00318	.00293	-.02670	1.03059	.48665	2.11773
1.199	GRADIENT	.05234	.06701	.00072	-.00418	.00013	.00203	-.00139	.05849	.00380	.60679

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BW2VFB)

(RF5007) (19 MAY 73)

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REFERENCE DATA

SREF = 171.4720 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

XREF = 16.8633 INCHES
 YREF = .0000 INCHES
 ZREF = .0000 INCHES

BETA = .000 WINGNO = 2.000
 LANDAF = 46.800 ELEVTR = .000
 EDPLAP = .000 RUPLFLR = .000

PARAMETRIC DATA

RUN NO. 20/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.034	167.19681	-.02801	-.05739	-.09301	-.03889
.350	.035	167.38417	-.02894	-.05828	-.09147	-.03695
.350	2.105	167.38417	-.02942	-.05876	-.09004	-.03695
.350	4.215	167.38417	-.03181	-.05923	-.08860	-.03838
.350	6.289	167.38417	-.03373	-.06446	-.09960	-.03933
.350	8.382	167.29061	-.03662	-.07211	-.10731	-.04843
.350	10.472	167.10324	-.04337	-.08363	-.11461	-.05804
.349	12.542	166.44792	-.06087	-.10830	-.13957	-.07937
.349	14.591	166.54175	-.08730	-.15083	-.17314	-.11722
.349	16.649	166.54175	-.11666	-.19195	-.20966	-.14840
.348	18.677	165.60565	-.16570	-.26754	-.30652	-.19312
.351	20.693	168.22605	-.22416	-.34815	-.40790	-.25712
	GRADIENT	.02693	-.00057	-.00029	.00070	.00007

RUN NO. 19/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.110	311.25760	-.01568	-.03068	-.03902	-.02306
.799	.048	310.94721	-.02082	-.02941	-.02899	-.02563
.799	2.240	311.14855	-.02185	-.02915	-.02667	-.02537
.799	4.425	310.88007	-.02521	-.03248	-.02951	-.02897
.799	6.679	310.95347	-.03139	-.04374	-.04263	-.03564
.799	8.724	311.22191	-.03782	-.06777	-.08556	-.04693
.799	10.849	310.88633	-.06310	-.10575	-.13841	-.07522
.799	12.941	311.07518	-.12183	-.16891	-.20730	-.13400
.799	15.032	311.22191	-.20805	-.25787	-.31264	-.21146
.800	17.090	311.35607	-.30373	-.35674	-.41688	-.31170
.799	19.153	311.14855	-.38404	-.43501	-.48737	-.38790
.799	21.235	311.09398	-.43872	-.48320	-.52501	-.42468
	GRADIENT	-.04263	-.00136	-.00024	.00141	-.00080



REFERENCE DATA

SREF = 171.4720 SQ. IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

BETA = .000 WINGNO = 2.000
LAMDAF = 46.800 ELEVTR = .500
BDFLAP = .000 RUDFLR = .500

PARAMETRIC DATA

RUN NO. 18/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.169	354.83564	-.00351	-.01764	-.00373	-.01766
.899	.034	354.95470	-.00462	-.01539	-.00552	-.01743
.900	2.243	355.36187	-.00286	-.01000	-.00238	-.01180
.899	4.465	354.76701	-.01343	-.01944	-.01451	-.01722
.898	6.664	354.71653	-.01863	-.04862	-.05964	-.02578
.899	8.859	354.99601	-.06116	-.11475	-.08755	-.07752
.900	10.984	355.43042	-.12030	-.18742	-.14982	-.12979
.898	13.108	354.58830	-.17799	-.24108	-.23211	-.18079
.900	15.237	355.18355	-.27022	-.32990	-.34980	-.27428
.899	17.337	355.01471	-.39181	-.44669	-.43727	-.39325
.899	19.428	354.88619	-.47913	-.53278	-.57179	-.48971
.899	21.495	354.76701	-.53509	-.58211	-.61913	-.52725
	GRADIENT	.00895	-.00127	-.00000	-.00132	.00031

RUN NO. 17/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.182	384.97420	-.15729	-.15010	-.16224	-.17089
.980	.045	384.79010	-.15571	-.14667	-.16670	-.17390
.980	2.262	384.92789	-.15866	-.15312	-.17464	-.18264
.980	4.523	384.75983	-.17596	-.17547	-.19711	-.20425
.979	6.762	384.42291	-.20260	-.20111	-.21562	-.22709
.981	8.983	384.60323	-.24111	-.23709	-.26051	-.25985
.980	11.198	385.41658	-.29135	-.28246	-.31895	-.31071
.980	13.399	385.00397	-.33547	-.32566	-.36095	-.35242
.980	15.596	385.00360	-.38632	-.37762	-.41132	-.40186
.980	17.771	385.62934	-.45111	-.45088	-.46414	-.45730
.979	19.877	385.00328	-.54128	-.54211	-.56127	-.56149
.979	21.992	384.75866	-.59370	-.59916	-.60947	-.61314
	GRADIENT	-.02269	-.00265	-.00371	-.00505	-.00488

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TABULATED SOURCE DATA-LARC 644

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(RP5PD7) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO.	16/ D	RN/L	2.11	GRADIENT	INTERVAL = -5.00/ 5.00
MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1
1.199	-2.155	439.95477	-21668	-22283	-22125
1.199	.064	440.09220	-21799	-21527	-22415
1.199	2.282	440.09220	-22236	-21491	-23595
1.199	4.535	440.01899	-23357	-22296	-24911
1.200	6.762	440.49159	-24962	-23873	-26220
1.199	8.993	439.96857	-26308	-25391	-27545
1.199	11.232	440.12745	-28646	-27877	-29493
1.200	13.454	440.19155	-30388	-31055	-31502
1.199	15.668	439.97619	-32639	-33490	-33854
1.199	17.862	440.08463	-37380	-37132	-38634
1.199	20.057	440.10605	-42119	-42564	-43412
1.199	21.301	439.90434	-45627	-46448	-47073
GRADIENT		.00858	-00247	-00001	-00237
					-00483

TABULATED SOURCE DATA-LARC 644

DATE 27 JUL 73

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFD)

(RF5008) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .0000 WINGNO = 2.000
LAMCAF = 55.0000 ELEVTR = .0000
BFLAP = .0000 RUFLR = .0000

RUN NO. 50/0 RV/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.348	-2.111	-.00181	-.06029	.01983	-.00340	-.00407	.00120	-.00229	-.05952	.02204	-2.70035
.348	.115	.00208	.04122	.02229	-.00333	-.00380	.00047	-.00484	.04117	.02238	1.84005
.348	2.188	.00462	.13863	.02012	-.00323	-.00395	.00000	-.00656	.13776	.02540	5.42351
.347	4.303	.00659	.23831	.01405	-.00269	-.00388	-.00019	-.00863	.23658	.03189	7.41777
.348	6.414	.00676	.34356	.00909	-.00248	-.00395	-.00019	-.00888	.34107	.04144	8.22965
.348	8.430	.00713	.44415	-.01042	-.00218	-.00388	-.00035	-.00880	.44088	.05481	8.04423
.348	10.501	.01004	.55701	-.02041	-.00362	-.00422	-.00107	-.01014	.55140	.08145	6.77003
.348	12.540	.00845	.68289	-.00397	-.00358	-.00405	.00091	-.01598	.61416	.13255	4.63348
.347	14.708	.01015	.70659	-.00180	-.00294	-.00396	.00053	-.01706	.68389	.17766	3.84944
.347	16.856	.01131	.76180	.00341	-.00228	-.00296	.00008	-.01714	.72808	.22416	3.24806
.347	18.854	.01156	.81699	.01253	-.00191	-.00427	-.00012	-.01690	.76910	.27587	2.78795
.347	20.693	.00899	.84187	.02106	-.00157	-.00595	.00036	-.01514	.78012	.31719	2.45946
.347	GRADIENT	.00130	.04659	-.00090	.00010	.00002	-.00022	-.00097	.04620	.00152	1.59469

RUN NO. 49/0 RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.798	-1.921	-.00264	-.05266	.01975	-.00501	-.00406	.00104	-.00224	-.05197	.02151	-2.41624
.800	.075	.00363	.04740	.02217	-.00566	-.00385	.00056	-.00500	.04737	.02223	2.13047
.798	2.221	.00882	.15880	.02037	-.00591	-.00396	.00031	-.00791	.15789	.02651	5.95377
.799	4.468	.01089	.28457	.01709	-.00651	-.00365	.00035	-.00965	.28238	.03921	7.20172
.798	6.638	.01284	.39343	.01847	-.00697	-.00375	.00007	-.01002	.38866	.06382	6.08965
.799	8.753	.01391	.48118	.02078	-.00623	-.00381	.00016	-.01122	.47241	.09376	5.03832
.800	10.898	.01749	.54557	.02628	-.00425	-.00203	.00013	-.02201	.53076	.17995	4.11607
.798	13.035	.01773	.62568	.02994	-.00389	-.00257	.00058	-.01636	.62280	.17030	3.53975
.799	15.055	.02082	.69417	.03474	-.00376	-.00209	.00090	-.01989	.66132	.21386	3.09234
.798	17.192	.02176	.74364	.04273	-.00209	-.00389	.00014	-.01774	.69779	.26063	2.67729
.799	19.180	.03061	.77628	.05099	-.00121	-.00135	-.00036	-.02415	.71644	.30320	2.36297
.798	21.283	.04630	.80174	.05933	-.00042	-.00182	-.00167	-.03068	.72552	.34629	2.09512
.798	GRADIENT	.00214	.05273	-.00047	-.00022	.00005	-.00011	-.00118	.05228	.00272	1.52331

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

(RF5008) (19 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ. IN. XREF = 16.9633 INCHES
LREF = 25.5100 INCHES YREF = .0000 INCHES
BREF = 20.3597 INCHES ZREF = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
LANCAF = 55.000 ELEVTR = .000
BDFLAP = .000 RUFLR = .000

RUN NO. 48/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.094	-.00552	-.06823	.02826	-.00810	-.00237	.00160	-.00284	-.06715	.03074	-2.18456
.899	.077	.00370	.03747	.03050	-.00832	-.00153	.00085	-.00588	.03743	.03055	1.22510
.898	2.310	.00800	.16138	.02999	-.00861	-.00124	.00062	-.00844	.03647	.03647	4.38830
.898	4.475	.01272	.27445	.02829	-.00704	-.00322	.00030	-.00966	.27140	.04962	5.46955
.899	6.645	.01497	.38671	.03085	-.00790	-.00290	.00071	-.01284	.38055	.07539	5.04785
.898	8.933	.01699	.50563	.03332	-.01061	-.00526	-.00052	-.00923	.49433	.11143	4.43615
.899	11.044	.02079	.57326	.03970	-.00941	-.00123	.00141	-.01971	.55504	.14878	3.73063
.899	13.224	.02376	.67669	.04518	-.01236	-.00130	.00058	-.01644	.64840	.19879	3.26178
.899	15.324	.02155	.74726	.05035	-.01369	-.00351	.00070	-.01737	.70738	.24604	2.87510
.896	17.552	.02522	.81976	.05817	-.01368	-.00328	.00090	-.02115	.76405	.30268	2.52430
.898	19.495	.03235	.85716	.06438	-.01318	-.00356	.00236	-.03223	.78654	.34675	2.26832
.895	21.544	.04505	.88937	.06967	-.01251	-.00211	.00158	-.03845	.80165	.39139	2.04820
GRADIENT	.00274	.00202	.05251	-.00002	.00013	-.00010	-.00019	-.00105	.05189	.00285	1.19137

RUN NO. 47/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.140	-.00771	-.12149	.06881	.00598	-.00401	.00223	-.00434	-.11884	.07330	-1.62135
.980	.082	.00114	.01546	.07083	-.00120	-.00368	.00175	-.00778	.01536	.07085	.21672
.980	2.351	.00604	.16308	.07085	-.00905	-.00358	.00172	-.01064	.16003	.07748	2.06548
.980	4.575	.00935	.32670	.07171	-.01929	-.00354	.00192	-.01348	.31993	.09754	3.27996
.978	6.735	.01179	.47274	.07120	-.02781	-.00237	.00215	-.01592	.46113	.12615	3.65543
.980	8.990	.01244	.61846	.07464	-.03556	-.00439	.00224	-.01671	.59722	.17005	3.51213
.981	11.229	.01439	.75206	.07567	-.04273	-.00548	.00237	-.01852	.72112	.22067	3.27601
.979	13.443	.02179	.87657	.07472	-.04844	-.00966	.00193	-.02143	.83518	.27646	3.02102
.981	15.659	.02662	1.01682	.07801	-.05724	-.00648	.00179	-.02398	.95814	.34923	2.74362
.980	17.827	.02994	1.07757	.07545	-.05081	-.00278	.00171	-.02602	1.00274	.40171	2.49620
.981	20.017	.01840	1.14675	.07984	-.04883	-.00098	.00065	-.05101	1.05015	.46755	2.24879
.979	22.044	.01945	1.17354	.08430	-.04605	.00015	.00029	-.04231	1.05611	.51859	2.03649
GRADIENT	.00250	.00250	.06657	.00039	-.00373	.00007	-.00004	-.00135	.06518	.00354	.73859

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5008) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 55.000 ELEVTR = .000
 BCFLAP = .000 RUDFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 46/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.105	-.001585	-.09241	.07528	.00439	-.00313	.00150	-.00296	-.08959	.07863	-1.13940
1.200	.095	.003000	.03306	.07813	-.00379	-.00277	.00131	-.00691	.03293	.07819	.42118
1.200	2.312	.00803	.16229	.07925	-.01222	-.00254	.00143	-.01008	.15896	.08574	1.85401
1.200	4.574	.01050	.30504	.07947	-.02144	-.00244	.00151	-.01171	.29774	.10354	2.87566
1.199	6.780	.01205	.43855	.07924	-.02986	-.00229	.00157	-.01283	.42613	.13046	3.26639
1.199	9.031	.01283	.57125	.07885	-.03743	-.00232	.00185	-.01442	.55179	.16754	3.29344
1.199	11.203	.01493	.69116	.07858	-.04379	-.00296	.00220	-.01701	.66272	.21136	3.11546
1.199	13.526	.01851	.81724	.07832	-.04919	-.00362	.00238	-.01977	.77625	.26728	2.90428
1.199	15.687	.02160	.92667	.07735	-.05266	-.00365	.00253	-.02219	.87124	.32503	2.68051
1.199	17.980	.02605	1.02588	.07662	-.05259	-.00426	.00259	-.02506	.95226	.38922	2.44659
1.199	20.166	.03030	1.09945	.07735	-.05012	-.00545	.00140	-.02281	1.05539	.45163	2.22611
1.199	GRADIENT	.00243	.05940	.00061	-.00386	.00010	.00001	-.00132	.05789	.00371	.65527

REFERENCE DATA

SRFP = 171.4720 SQ.IN.

LRFP = 25.5100 INCHES

BRFP = 20.3597 INCHES

SCALE = .0188 SCALE

YMRP = 16.8633 INCHES

YMRP = .0000 INCHES

ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000

WINGNO = 2.000

LANDAF = 55.000

ELEVTR = .000

EDFLAP = .000

RUDFLR = .000

RUN NO.		50/ 0	RN/L = 2.03	GRADIENT INTERVAL = -5.00/ 5.00	
MACH		ALPHA	Q (PSF)	CFB1	CFB2
.348		-2.111	164.85282	-.02642	-.05839
.348		.115	165.04058	-.02785	-.05881
.348		2.188	164.85282	-.02982	-.06032
.347		4.303	164.75893	-.03178	-.06277
.348		6.414	165.13399	-.03220	-.06601
.348		8.430	165.13399	-.03463	-.07179
.348		10.501	165.04012	-.04242	-.08389
.348		12.540	164.85282	-.06143	-.11103
.347		14.708	164.75916	-.08481	-.14443
.347		16.856	164.57184	-.12144	-.19636
.347		18.854	164.29061	-.16750	-.26405
.347		20.693	164.19716	-.23106	-.33983
	GRADIENT		-.02147	-.07085	-.09088
		CFB1	CFB2	CFC1	CFC2
		-.02642	-.05839	-.09332	-.04690
		-.02785	-.05881	-.09176	-.04250
		-.02982	-.06032	-.09041	-.04012
		-.03178	-.06277	-.09434	-.04257
		-.03220	-.06601	-.10044	-.04635
		-.03463	-.07179	-.10480	-.05650
		-.04242	-.08389	-.11407	-.06815
		-.06143	-.11103	-.14382	-.08615
		-.08481	-.14443	-.17402	-.11771
		-.12144	-.19636	-.22188	-.16783
		-.16750	-.26405	-.28316	-.23424
		-.23106	-.33983	-.37692	-.32777
		-.07085	-.09088	-.09088	-.09073

RUN NO.		49/ 0	RN/L = 1.88	GRADIENT INTERVAL = -5.00/ 5.00	
MACH		ALPHA	Q (PSF)	CFB1	CFB2
.798		-1.921	310.55046	-.01411	-.02851
.800		.075	311.35607	-.02160	-.03054
.798		2.221	310.74577	-.02263	-.03056
.799		4.468	311.08145	-.02572	-.03388
.798		6.638	310.34259	-.03193	-.04289
.799		8.753	311.01433	-.03706	-.06690
.800		10.898	311.42313	-.07977	-.11848
.798		13.035	310.75202	-.11962	-.16660
.799		15.055	310.85505	-.18226	-.23571
.798		17.192	310.59270	-.28228	-.33689
.799		19.180	310.72702	-.37375	-.42617
.798		21.283	310.34881	-.46741	-.51876
	GRADIENT		.04452	-.00167	-.00076
		CFB1	CFB2	CFC1	CFC2
		-.01411	-.02851	-.03184	-.02036
		-.02160	-.03054	-.02693	-.02472
		-.02263	-.03056	-.02720	-.02550
		-.02572	-.03388	-.03028	-.02858
		-.03193	-.04289	-.03933	-.03580
		-.03706	-.06690	-.08304	-.04912
		-.07977	-.11848	-.11997	-.07807
		-.11962	-.16660	-.21241	-.13808
		-.18226	-.23571	-.28806	-.19484
		-.28228	-.33689	-.39962	-.30763
		-.37375	-.42617	-.49219	-.38103
		-.46741	-.51876	-.57220	-.43551
		-.00167	-.00076	-.00018	-.00119

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LANDAF = 55.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO.	48/ 0	RN/L	1.98	GRADIENT	INTERVAL =	-5.00/	5.00
MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2	
.898	-2.094	354.51057	-.00199	-.01080	-.00126	-.01216	
.899	.077	354.77609	-.00373	-.01259	-.00485	-.01485	
.898	2.310	354.48719	-.00507	-.01215	-.00507	-.01261	
.898	4.475	354.32268	-.01164	-.01957	-.01340	-.01419	
.899	6.645	354.95470	-.02314	-.04892	-.03007	-.03015	
.898	8.933	354.65695	-.05661	-.09812	-.07004	-.06666	
.899	11.044	354.68021	-.11695	-.19037	-.12962	-.12205	
.899	13.224	354.98198	-.18234	-.26467	-.22692	-.18046	
.899	15.324	354.69837	-.25502	-.31850	-.34355	-.27473	
.896	17.552	353.85746	-.36686	-.43133	-.46810	-.39999	
.898	19.495	354.34983	-.45344	-.51835	-.55171	-.49794	
.895	21.544	353.47162	-.53666	-.58743	-.62645	-.54685	
	GRADIENT	-.03901	-.00138	-.00118	-.00167	-.00017	

RUN NO.	47/ 0	RN/L	2.04	GRADIENT	INTERVAL =	-5.00/	5.00
MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2	
.980	-2.140	385.14088	-.15397	-.14873	-.16017	-.16702	
.980	.082	385.20195	-.15167	-.14459	-.16390	-.17033	
.980	2.351	385.14088	-.15543	-.15121	-.17306	-.17946	
.980	4.575	385.14088	-.17645	-.17519	-.19634	-.20145	
.978	6.735	384.49677	-.19133	-.19307	-.21976	-.21706	
.980	8.990	385.91812	-.24383	-.24026	-.26815	-.26440	
.981	11.229	385.89211	-.29418	-.28655	-.32610	-.31602	
.979	13.443	384.78888	-.32704	-.31834	-.35922	-.34655	
.981	15.639	386.72690	-.37577	-.36822	-.40854	-.39686	
.980	17.827	385.44572	-.43088	-.43429	-.46603	-.44439	
.981	20.017	385.43247	-.52520	-.52900	-.53626	-.53526	
.979	22.044	384.72778	-.57836	-.58346	-.58688	-.59179	
	GRADIENT	-.00276	-.00317	-.00384	-.00525	-.00501	

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

PAGE 40

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&WFB) (RPSPD6) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGMO = 2.000
 LANDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 46/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.105	440.42992	-2.21691	-2.22074	-2.22147	-2.21748
1.200	.095	440.32910	-2.22019	-2.21894	-2.22039	-2.22637
1.200	2.312	440.37951	-2.22565	-2.21857	-2.22965	-2.23797
1.200	4.574	440.42992	-2.23602	-2.22526	-2.24128	-2.24939
1.199	6.780	440.48799	-2.24775	-2.23727	-2.25482	-2.26000
1.199	9.031	440.28006	-2.26449	-2.25949	-2.27426	-2.27414
1.199	11.203	440.43137	-2.28175	-2.27393	-2.28568	-2.29061
1.199	13.526	440.28006	-3.03999	-3.1302	-3.1680	-3.1278
1.199	15.687	440.43137	-3.2161	-3.3359	-3.3711	-3.3106
1.199	17.960	440.25106	-3.5120	-3.5937	-3.6504	-3.6255
1.199	20.166	440.40993	-3.9765	-3.9736	-3.9578	-4.1717
	GRADIENT	.00235	-.00283	-.00060	-.00309	-.00482

DATE 07 JUL 73 TABULATED SOURCE DATA--LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB) (RP5009) (19 MAY 75)

PARAMETRIC DATA

BETA = .000 WINGHO = 2.000
LMDAF = 60.000 ELEVTR = .000
BCFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 45/ D RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.026	-.00088	-.05439	.01985	-.00328	-.00376	.00081	-.00205	-.05366	.02176	-2.46597
.349	.066	.00258	.04164	.02214	-.00320	-.00382	.00036	-.00511	.04161	.02219	1.87555
.349	2.136	.00580	.13414	.02009	-.00285	-.00370	-.00023	-.00722	.13330	.02508	5.31574
.350	4.228	.00639	.23899	.01401	-.00219	-.00390	-.00046	-.00712	.23731	.03159	7.51152
.350	6.316	.00726	.34048	.00354	-.00177	-.00389	-.00033	-.00891	.33803	.04097	8.24965
.350	8.395	.00761	.44293	-.00989	-.00129	-.00384	-.00054	-.00862	.43963	.05488	8.01088
.350	10.501	.01132	.55978	-.01896	-.00271	-.00429	-.00171	-.00924	.55396	.08338	6.64286
.349	12.565	.00965	.63502	-.00504	-.00228	-.00254	.00014	-.01466	.62091	.13322	4.66069
.349	14.642	.01075	.72534	-.00641	-.00167	-.00331	.00024	-.01664	.70340	.17715	3.97266
.349	16.717	.01331	.79247	-.00610	-.00116	-.00285	.00048	-.02155	.76073	.22211	3.42509
.349	18.708	.01433	.80965	.01006	-.00021	-.00079	.00090	-.02497	.76364	.26922	2.83648
.349	20.778	.01366	.88504	.01412	-.00174	-.00335	.00051	-.02265	.82247	.32717	2.51384
.349	GRADIENT	.00120	.04669	-.00094	.00017	-.00001	-.00021	-.00083	.04631	.00155	1.60193

RUN NO. 44/ D RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.084	-.00239	-.06142	.01922	-.00478	-.00385	.00101	-.00230	-.06068	.02145	-2.82943
.799	.078	.00426	.04789	.02202	-.00518	-.00403	.00053	-.00535	.04786	.02208	2.16744
.800	2.259	.00959	.16268	.02039	-.00559	-.00403	.00021	-.00805	.16175	.02678	6.03934
.798	4.449	.01193	.28336	.01700	-.00593	-.00383	.00018	-.00972	.28119	.03892	7.22394
.798	6.623	.01331	.39150	.01829	-.00566	-.00354	.00012	-.01056	.38678	.06332	6.10842
.799	8.744	.01305	.47115	.02202	-.00490	-.00232	.00052	-.01206	.46233	.09339	4.95033
.799	10.912	.01668	.56924	.02352	-.00452	-.00132	.00094	-.01662	.55449	.13085	4.23752
.799	13.018	.01921	.61745	.02936	-.00100	-.00148	.00070	-.01769	.59497	.16769	3.54798
.799	15.157	.02197	.71427	.03290	-.00208	-.00300	.00040	-.01875	.68078	.21850	3.11507
.799	17.262	.02107	.7137	.03638	.00027	-.00424	.00041	-.01823	.72523	.26555	2.73109
.798	19.352	.02269	.82202	.04674	.00231	-.00431	.00040	-.01972	.76032	.31583	2.40734
.799	21.420	.02598	.84772	.05111	.00543	-.00354	-.00031	-.01974	.77050	.35717	2.15722
.799	GRADIENT	.00222	.05276	-.00038	-.00018	.00000	-.00013	-.00115	.05232	.00263	1.56143

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5009) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMEVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAMDAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 43/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.147	-.00426	-.57176	.02760	-.00747	-.00250	.00143	-.00298	-.07067	.03027	-2.33488
.900	.062	.00336	.03818	.03023	-.00766	-.00161	.00078	-.00538	.03815	.03027	1.26005
.901	2.247	.00926	.15466	.03062	-.00715	-.00110	.00046	-.00795	.15334	.03667	4.18217
.899	4.490	.01373	.27204	.02946	-.00565	-.00323	.00028	-.01021	.26889	.05067	5.30683
.897	6.701	.01472	.38678	.02926	-.00660	-.00386	.00055	-.01203	.38072	.07419	5.13162
.896	8.887	.01675	.50301	.03222	-.00912	-.00542	.00016	-.01186	.49200	.10954	4.49153
.899	11.067	.02024	.59802	.03663	-.00981	-.00623	-.00017	-.01292	.57986	.15074	3.84672
.899	13.219	.01770	.67767	.04265	-.00858	-.00754	-.00027	-.01089	.64996	.19649	3.30763
.898	15.352	.02343	.76168	.04667	-.01012	-.00393	.00044	-.01782	.72215	.24666	2.92773
.899	17.501	.02323	.83696	.05567	-.00985	-.00512	.00009	-.01641	.78148	.30479	2.56402
.899	19.604	.02459	.89315	.06218	-.00935	-.00410	.00164	-.02390	.82052	.35825	2.29037
.898	21.706	.02685	.94153	.06546	-.00784	-.00314	.00222	-.02801	.85056	.40903	2.07944
.900	GRADIENT	.00271	.05195	.00027	.00027	-.00008	-.00017	-.00110	.05132	.00306	1.16869

RUN NO. 42/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.165	-.00750	-.12625	.06825	.00658	-.00434	.00192	-.00324	-.12358	.07297	-1.69360
.980	.056	.00141	.01492	.07074	-.00048	-.00405	.00169	-.00771	.01485	.07075	.20992
.980	2.285	.00696	.15574	.07050	-.00780	-.00404	.00164	-.01089	.15280	.07665	1.99352
.980	4.556	.00974	.32122	.07091	-.01759	-.00355	.00187	-.01351	.31457	.09620	3.26981
.980	6.791	.01167	.47551	.07199	-.02637	-.00310	.00209	-.01561	.46367	.12772	3.63045
.980	9.017	.01373	.61303	.07308	-.03333	-.00426	.00174	-.01550	.59400	.16825	3.33046
.981	11.252	.01711	.75812	.07540	-.04244	-.00399	.00178	-.01779	.72883	.22189	3.28471
.979	13.462	.02339	.89964	.07629	-.05112	-.00342	.00144	-.02045	.85717	.28363	3.02216
.981	15.671	.02830	1.02448	.07823	-.05706	-.00342	.00136	-.02335	.96527	.35205	2.74187
.980	17.849	.03253	1.11378	.08062	-.05664	-.00392	.00111	-.02118	1.03546	.41813	2.47641
.980	20.032	.03048	1.15341	.07417	-.04563	-.00471	.00127	-.02485	1.05847	.46421	2.28014
.980	GRADIENT	.00255	.06625	.00034	-.00357	.00011	-.00001	-.00152	.06487	.00339	.74427

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644
LARC 8-FT YFT 644 LO-100 ORBITER (SHIPS) (BNCVFB)

(RP5009) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LAWCAF = 60.000 ELEVTR = .000
BDFLAP = .000 RUFLR = .000

RUN NO. 41/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.122	-.00451	-.09246	.07479	.00481	-.00310	.00130	-.00268	-.08963	.07817	-1.14663
1.201	.081	.00345	.03357	.07760	-.00318	-.00305	.00112	-.00636	.03346	.07765	.43097
1.201	2.322	.00811	.16462	.07869	-.01167	-.00295	.00133	-.00972	.16130	.08329	1.89114
1.201	4.566	.01071	.30789	.07866	-.02079	-.00248	.00138	-.01130	.30066	.10292	2.92135
1.201	6.808	.01235	.44376	.07837	-.02917	-.00230	.00149	-.01264	.43134	.13042	3.30726
1.201	9.050	.01373	.57693	.07828	-.03662	-.00256	.00175	-.01450	.55743	.16806	3.31681
1.200	11.295	.01528	.70261	.07820	-.04301	-.00291	.00211	-.01682	.67368	.21430	3.14361
1.200	13.525	.01894	.82693	.07817	-.04835	-.00320	.00228	-.01960	.78571	.26940	2.91653
1.201	15.765	.02216	.94194	.07728	-.05230	-.00321	.00238	-.02189	.88551	.33029	2.68105
1.201	17.971	.02491	1.04251	.07760	-.05372	-.00373	.00250	-.02404	.96771	.39547	2.44696
1.201	20.174	.02737	1.12045	.07767	-.05525	-.00378	.00256	-.02585	1.02492	.45932	2.23137
1.200		.00225	.05973	.00057	-.00362	.00009	.00002	-.00128	.05823	.00368	.61239

GRADIENT

(RP5P09) (19 MAY 73)

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (RM2VFB)

DATE 07 JUL 73

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	45/ 0	0	RN/L = 2.05	GRADIENT	INTERVAL = -5.00/ 5.00	CFB1	CFB2	CFB3	CFB4
MACH	ALPHA	Q (FSF)	Q (FSF)	CFB1	CFB2	CFB3	CFB4	CFB5	CFB6
.349	-2.026	166.16524	166.16524	-.02575	-.05722	-.09308	-.04727	-.09308	-.04727
.349	.066	166.07140	166.07140	-.02721	-.05965	-.09217	-.04297	-.09217	-.04297
.349	2.136	166.53963	166.53963	-.02859	-.06245	-.09192	-.04094	-.09192	-.04094
.350	4.228	166.63322	166.63322	-.03002	-.06185	-.09523	-.04379	-.09523	-.04379
.350	6.316	166.72633	166.72633	-.03144	-.06516	-.09902	-.04904	-.09902	-.04904
.350	8.395	166.81396	166.81396	-.03429	-.07177	-.10467	-.05760	-.10467	-.05760
.350	10.501	166.82014	166.82014	-.04104	-.08182	-.11240	-.06960	-.11240	-.06960
.349	12.565	166.35221	166.35221	-.06042	-.10884	-.14350	-.09139	-.14350	-.09139
.349	14.642	166.07164	166.07164	-.07596	-.13729	-.16543	-.11366	-.16543	-.11366
.349	16.717	165.88395	165.88395	-.10551	-.17439	-.19601	-.13352	-.19601	-.13352
.349	18.708	166.07164	166.07164	-.16669	-.25711	-.28206	-.18530	-.28206	-.18530
.349	20.778	166.07164	166.07164	-.20868	-.31894	-.34905	-.26561	-.34905	-.26561
GRADIENT		.08977		-.00068	-.00071	-.00030	-.00060	-.00030	-.00060

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	44/ 0	0	RN/L = 1.88	GRADIENT	INTERVAL = -5.00/ 5.00	CFB1	CFB2	CFB3	CFB4
MACH	ALPHA	Q (FSF)	Q (FSF)	CFB1	CFB2	CFB3	CFB4	CFB5	CFB6
.800	-2.084	311.76456	311.76456	-.01157	-.02784	-.03565	-.02048	-.03565	-.02048
.799	.078	310.86756	310.86756	-.02083	-.03017	-.02823	-.02511	-.02823	-.02511
.800	2.259	311.49018	311.49018	-.02057	-.02964	-.02590	-.02407	-.02590	-.02407
.798	4.449	310.59270	310.59270	-.02470	-.03402	-.03184	-.02871	-.03184	-.02871
.798	6.623	310.82543	310.82543	-.02985	-.04220	-.03827	-.03435	-.03827	-.03435
.799	8.744	310.86756	310.86756	-.04016	-.06730	-.07148	-.04900	-.07148	-.04900
.799	10.912	310.89258	310.89258	-.06310	-.10543	-.12245	-.06980	-.12245	-.06980
.799	13.018	310.92843	310.92843	-.12317	-.17225	-.21949	-.12630	-.21949	-.12630
.799	15.157	311.02060	311.02060	-.17312	-.22696	-.27861	-.19174	-.27861	-.19174
.799	17.262	311.22191	311.22191	-.25595	-.31353	-.36717	-.28297	-.36717	-.28297
.798	19.352	310.82543	310.82543	-.35708	-.41607	-.48631	-.37811	-.48631	-.37811
.799	21.420	310.84879	310.84879	-.43339	-.49159	-.56096	-.44977	-.56096	-.44977
GRADIENT		-.13276		-.00179	-.00083	-.00063	-.00109	-.00063	-.00109

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNCVFB)

(RP5P09) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0186 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMCAF = 60.000 ELEVTR = .000
 BDFLAP = .000 RUOFFL = .000

RUN NO. 43/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.899	-2.147	354.69837	-.00134	-.00933	-.00104	-.01091
.900	.062	355.13320	-.00308	-.01112	-.00372	-.01270
.900	2.247	355.38014	-.00374	-.01246	-.00372	-.01224
.899	4.490	355.14231	-.00687	-.01874	.00000	-.01135
.897	6.701	354.00633	-.02206	-.04712	-.03783	-.02694
.898	8.887	354.35887	-.05235	-.09020	-.07867	-.06636
.899	11.067	354.95470	-.10330	-.17033	-.12860	-.10630
.899	13.219	354.89518	-.17671	-.24864	-.25311	-.22197
.898	15.352	354.65695	-.24101	-.30626	-.33069	-.27143
.899	17.501	354.89518	-.35739	-.42604	-.46182	-.39726
.898	19.604	354.40946	-.45919	-.52387	-.56443	-.49537
.900	21.706	355.27037	-.52148	-.58332	-.62637	-.55486
GRADIENT		.07117	-.00078	-.00134	.00014	-.00004

RUN NO. 42/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.980	-2.165	385.24787	-.15104	-.14612	-.15787	-.16301
.980	.056	385.43104	-.14998	-.14300	-.16387	-.16954
.980	2.285	385.43104	-.15248	-.14858	-.17114	-.17742
.980	4.556	385.12574	-.17197	-.17155	-.19218	-.19779
.980	6.791	385.29378	-.20244	-.20211	-.22913	-.22969
.980	9.017	385.47692	-.23774	-.23469	-.26375	-.25967
.981	11.252	385.61798	-.29258	-.28544	-.32535	-.31492
.979	13.462	385.17059	-.32552	-.31752	-.35994	-.34901
.981	15.671	385.73625	-.37394	-.36479	-.40451	-.39453
.980	17.849	385.53797	-.43855	-.44133	-.45243	-.45041
.980	20.002	385.53755	-.49585	-.50567	-.50634	-.50585
GRADIENT		-.01661	-.00291	-.00367	-.00493	-.00475

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5F09) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BwVFB)

REFERENCE DATA

SREF = 171.4720 50. IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMPAC = 60.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 41/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
1.201	-2.122	440.73033	-2.1736	-2.2071	-2.2228	-2.21799
1.201	.081	440.75160	-2.1922	-2.21949	-2.21997	-2.22437
1.201	2.322	440.70124	-2.2504	-2.21859	-2.23014	-2.23760
1.201	4.566	440.83106	-2.3499	-2.2395	-2.24080	-2.24860
1.201	6.808	440.65868	-2.4605	-2.3330	-2.25294	-2.25836
1.199	9.090	440.58847	-2.6234	-2.25200	-2.26884	-2.27278
1.200	11.295	440.53840	-2.8064	-2.27163	-2.28439	-2.28992
1.201	13.525	440.60248	-3.0550	-3.1673	-3.2375	-3.1669
1.201	15.765	440.70905	-3.2152	-3.3318	-3.4283	-3.3373
1.201	17.971	440.80979	-3.5859	-3.6691	-3.7983	-3.7029
1.200	20.174	440.76722	-4.1343	-4.1361	-4.3351	-4.3816
	GRADIENT	.01132	-4.00264	-4.00040	-4.00295	-4.00471

DATE 07 JUL 73

TABULATED SOURCE DATA--LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BACVFP) (RP5010) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

BETA = .000 WINGNO = 2.000
 LAMDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

PARAMETRIC DATA

RUN NO. 40/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.016	-.00127	-.05562	.01970	-.00374	-.00360	.00112	-.00278	-.05489	.02164	-2.53614
.350	.076	.00157	.04144	.02201	-.00331	-.00383	.00056	-.00449	.04142	.02207	1.87695
.350	2.149	.00442	.13738	.01975	-.00271	-.00366	.00005	-.00640	.13654	.02489	5.48552
.350	4.236	.00645	.23650	.01400	-.00188	-.00381	-.00207	-.00880	.23482	.03143	7.47036
.349	6.326	.00595	.34172	.00329	-.00116	-.00377	-.00017	-.00774	.33927	.04094	8.28784
.349	8.421	.00655	.44867	-.01089	-.00042	-.00365	-.00022	-.00841	.44543	.05493	8.10885
.349	10.516	.00888	.56489	-.01958	-.00195	-.00411	-.00083	-.00933	.55898	.08384	6.66695
.349	12.590	.00803	.65136	-.00594	-.00136	-.00204	.00047	-.01350	.63699	.13619	4.67735
.349	14.691	.01126	.75619	-.00813	-.00073	-.00245	.00058	-.01873	.73352	.18392	3.98035
.349	16.768	.01297	.84653	-.01100	-.00218	-.00180	.00056	-.02133	.81371	.23369	3.48197
.349	18.799	.01569	.87191	-.00156	-.00546	-.00178	.00034	-.02470	.82590	.27950	2.95492
.349	20.846	.01731	.92627	.00261	.00534	.00126	-.00028	-.02489	.86471	.33206	2.60409
GRADIENT		.00125	.04667	-.00093	.00030	-.00002	-.00000	-.00096	.04628	.00154	1.61414

RUN NO. 39/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.074	-.00437	-.06792	.01885	-.00901	-.00393	.00117	-.00146	-.06020	.02104	-2.86120
.800	.091	.00365	.04998	.02205	-.00328	-.00373	.00062	-.00525	.04994	.02213	2.25700
.799	2.272	.00780	.16312	.02021	-.00517	-.00382	.00041	-.00753	.16219	.02666	6.08341
.800	4.469	.01026	.28770	.01706	-.00558	-.00372	.00035	-.00916	.28550	.03943	7.24082
.799	6.637	.01220	.39161	.01685	-.00503	-.00333	.00034	-.01063	.38681	.06399	6.04480
.800	8.798	.01296	.48472	.02152	-.00484	-.00318	.00022	-.01076	.47573	.09540	4.98649
.799	10.931	.01523	.58400	.02236	-.00368	-.00345	.00055	-.01388	.56912	.13290	4.28228
.798	13.137	.01949	.70699	.02140	-.00522	-.00202	.00092	-.01881	.68362	.18152	3.76606
.800	15.258	.02454	.76676	.02535	-.00591	-.00175	.00287	-.03074	.73306	.22625	3.24005
.799	17.340	.02804	.80549	.03374	.00279	-.00028	.00095	-.02596	.75883	.27227	2.78706
.798	19.431	.02652	.84822	.04271	.00555	-.00271	.00011	-.02161	.78570	.32245	2.43665
.800	21.463	.02418	.85833	.05146	.00803	-.00415	-.00016	-.01520	.77998	.36196	2.15488
GRADIENT		.00220	.05314	-.00033	-.00007	.00002	-.00012	-.00116	.05270	.00274	1.56364

PARAMETRIC DATA

REFERENCE DATA
SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
LANDAF = 65.000 ELEVTR = .000
BDFLAP = .000 RUFLR = .000

RUN NO. 38/ D RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.886	-.00818	-.11515	.02697	-.00745	-.00276	.00192	-.00239	-.11365	.03274	-3.47163
.900	.058	.00226	.03646	.03037	-.00784	-.00118	.00111	-.00599	.03643	.03041	1.19777
.900	2.291	.00867	.15840	.03062	-.00758	-.00097	.00066	-.00839	.15705	.03693	4.25304
.900	4.506	.01207	.27473	.02834	-.00550	-.00270	.00072	-.01089	.27165	.04983	5.45130
.899	6.719	.01407	.38817	.03131	-.00805	-.00411	.00082	-.01265	.38185	.07651	4.99098
.901	8.906	.01758	.50981	.03456	-.01012	-.00354	-.00001	-.01165	.49832	.11307	4.40722
.900	11.097	.01946	.62270	.03714	-.01235	-.00474	-.00079	-.00927	.60391	.15629	3.86394
.899	13.278	.02108	.72424	.04065	-.01454	-.00399	-.00007	-.01400	.69554	.20590	3.37812
.899	15.452	.02263	.81440	.04303	-.01261	-.00244	.00203	-.02373	.77350	.25846	2.99267
.899	17.596	.02764	.87692	.05128	-.00795	-.00161	.00146	-.02503	.82039	.31398	2.61290
.899	19.688	.02807	.92284	.05807	-.00493	-.00178	.00195	-.02757	.84933	.36557	2.32327
.899	21.737	.02627	.94069	.06451	-.00229	-.00301	.00136	-.02415	.84991	.40831	2.08152
GRADIENT		.00278	.05288	.00021	.00704	.00004	-.00017	-.00115	.05227	.00226	1.23629

RUN NO. 37/ D RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.151	-.00883	-.12143	.06854	.00585	-.00413	.00227	-.00386	-.11877	.07305	-1.62593
.981	.069	.00018	.01719	.07031	-.00080	-.00363	.00193	-.00794	.01710	.07033	.24321
.980	2.320	.00671	.16254	.07017	-.00759	-.00377	.00198	-.01211	.15957	.07669	2.08067
.980	4.584	.00927	.33177	.07154	-.01801	-.00303	.00224	-.01473	.32500	.09782	3.32234
.980	6.815	.01060	.48463	.07234	-.02700	-.00216	.00238	-.01614	.47262	.12933	3.65429
.980	9.036	.01261	.61858	.07259	-.03335	-.00288	.00231	-.01712	.59944	.16924	3.54202
.981	11.262	.01692	.75820	.07511	-.04096	-.00407	.00207	-.01889	.72893	.22174	3.28729
.980	13.478	.01987	.89006	.07630	-.04753	-.00695	.00243	-.02225	.84776	.28164	3.01005
.979	15.696	.02637	1.00793	.07626	-.05095	-.00643	.00165	-.02334	.94971	.34609	2.74416
.980	17.912	.02751	1.14822	.08110	-.05864	-.00430	.00245	-.02750	1.06763	.43030	2.48110
.980	20.081	.03095	1.19779	.07579	-.04814	-.00699	.00092	-.02376	1.09895	.48245	2.27786
.980	22.196	.01321	1.21830	.07988	-.03855	.00013	.01281	-.06062	1.09784	.53421	2.05509
GRADIENT		.00271	.06703	.00039	.00349	.00015	-.00000	-.00164	.06564	.00360	.74262



DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

(RP5010) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
LAMDAF = 65.000 ELEVR = .000
BDFLAP = .000 RUDFLR = .000

PARAMETRIC DATA

RUN NO. 36/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.134	-.00617	-.09320	.07415	.00468	-.00293	.00160	-.00321	-.09038	.07757	-1.16515
1.200	.101	.00217	.03410	.07695	-.00341	-.00285	.00139	-.00677	.03396	.07701	.44101
1.200	2.324	.00775	.16603	.07830	-.01175	-.00275	.00149	-.01015	.16271	.08497	1.91497
1.200	4.577	.00960	.30697	.07824	-.02033	-.00248	.00162	-.01170	.29975	.10248	2.92496
1.200	6.823	.01107	.44288	.07767	-.02821	-.00231	.00175	-.01303	.43052	.12974	3.31840
1.200	9.084	.01238	.57850	.07709	-.03535	-.00236	.00212	-.01524	.55907	.16746	3.33855
1.199	11.316	.01456	.70601	.07706	-.04123	-.00272	.00240	-.01764	.67716	.21410	3.18278
1.200	13.560	.01673	.83075	.07696	-.04621	-.00277	.00243	-.02009	.78955	.26960	2.92864
1.200	15.794	.02273	.94668	.07629	-.04980	-.00300	.00248	-.02259	.89017	.33108	2.68872
1.200	18.019	.02409	1.05190	.07723	-.05146	-.00367	.00260	-.02400	.97642	.39683	2.44818
1.200	20.226	.02643	1.13085	.07679	-.04775	-.00279	.00289	-.02667	1.03457	.46300	2.23448
1.200		.02336	.05960	.07061	-.01373	.00006	.00001	-.00129	.05811	.00370	.61465

GRADIENT

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5F10) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&WFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGAO = 2.000
 LANDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUCLFLR = .000

RUN NO. 40/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.018	166.63322	-.02761	-.05755	-.09285	-.04812
.350	.076	166.63322	-.02809	-.05946	-.09237	-.04189
.350	2.149	166.63322	-.02954	-.06089	-.09381	-.04285
.350	4.236	166.63322	-.03194	-.06376	-.09765	-.03997
.349	6.328	166.53963	-.03244	-.06686	-.10443	-.04670
.349	8.421	166.35244	-.03440	-.07056	-.10695	-.05347
.349	10.516	166.35244	-.04066	-.08109	-.11561	-.06212
.349	12.590	165.97803	-.05813	-.10668	-.13226	-.08005
.349	14.691	166.07187	-.08271	-.11573	-.11291	-.10357
.349	16.768	166.35244	-.10860	-.14281	-.13871	-.13124
.349	18.799	166.35244	-.15774	-.20645	-.19885	-.18405
.349	20.846	166.44604	-.19810	-.27185	-.27423	-.23240
GRADIENT		.00000	-.05769	-.09096	-.09076	.00113

RUN NO. 39/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.670	-2.074	311.28272	-.01130	-.02964	-.04262	-.02074
.800	.091	311.55092	-.01902	-.02810	-.03745	-.02331
.799	2.272	311.01433	-.02237	-.03015	-.02623	-.02537
.800	4.469	311.34979	-.02263	-.03215	-.03105	-.02639
.799	6.637	311.21564	-.03087	-.04371	-.04109	-.03486
.800	8.798	311.61795	-.04063	-.06795	-.07356	-.05252
.799	10.951	311.08145	-.05664	-.09745	-.12263	-.07337
.798	13.137	310.61142	-.08198	-.13242	-.16317	-.10379
.800	15.258	311.28272	-.15111	-.20787	-.23937	-.15107
.799	17.340	311.14855	-.23386	-.29057	-.33116	-.24968
.798	19.431	310.67236	-.33790	-.40116	-.46711	-.36210
.800	21.462	311.35607	-.44429	-.50334	-.57422	-.45958
GRADIENT		-.01535	-.00171	-.09748	.00155	-.00087

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BACVFB) (RPSPID) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAMCAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 38/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.900	-2.886	355.19267	-.00049	-.01134	-.00126	-.01405
.900	.058	355.19267	-.00202	-.01000	-.00372	-.01248
.900	2.291	355.13320	-.00463	-.01246	-.00619	-.01358
.900	4.506	355.16531	-.00552	-.01874	-.01292	-.01000
.899	6.719	355.01421	-.02200	-.04206	-.03571	-.02733
.901	8.906	355.54922	-.05872	-.10916	-.07100	-.07872
.900	11.097	355.12408	-.09332	-.15994	-.12517	-.10400
.899	13.278	355.06460	-.13983	-.21400	-.19259	-.15192
.899	15.452	354.70745	-.21454	-.27165	-.28710	-.23222
.899	17.596	354.95470	-.33362	-.38269	-.38363	-.35738
.899	19.688	354.83564	-.43538	-.50507	-.53286	-.47565
.899	21.737	355.01421	-.52569	-.59024	-.62345	-.56336
GRADIENT		-.00579	-.07072	-.02196	-.00151	.00046

RUN NO. 37/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.151	385.60274	-.15604	-.15150	-.16328	-.16957
.981	.069	385.40109	-.14905	-.14187	-.16295	-.16821
.980	2.320	385.15602	-.15123	-.14774	-.17136	-.17661
.980	4.584	385.15602	-.17433	-.17378	-.19547	-.19900
.980	6.815	385.20195	-.20347	-.20169	-.23454	-.22886
.980	9.036	385.01969	-.24341	-.23847	-.27611	-.26369
.981	11.262	385.48086	-.29370	-.28449	-.32608	-.31066
.980	13.478	385.29378	-.33620	-.32896	-.36728	-.35820
.979	15.696	384.88021	-.38064	-.36854	-.41149	-.39752
.980	17.912	385.11060	-.44516	-.44315	-.45989	-.45826
.980	20.081	385.29378	-.48203	-.49587	-.48797	-.49354
.980	22.196	385.24737	-.57789	-.58344	-.58205	-.58895
GRADIENT		-.07351	-.00255	-.00325	-.00469	-.00432

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

(RPSFID) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LAMDAF = 65.000 ELEVTR = .000
BDPLAP = .000 RUDEFLR = .000

RUN NO. 36/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.134	440.57343	-21714	-22049	-22208	-21832
1.200	.101	440.57343	-21805	-21760	-21953	-22340
1.200	2.324	440.42224	-22388	-21671	-22827	-23483
1.200	4.577	440.55208	-23384	-22352	-23984	-24656
1.200	6.823	440.55208	-24748	-23707	-25474	-25852
1.200	9.084	440.45128	-26005	-24991	-26692	-27014
1.199	11.316	440.46660	-28152	-27286	-28691	-28936
1.200	13.560	440.55208	-30188	-30699	-31523	-31054
1.200	15.794	440.58700	-31806	-32378	-33557	-32829
1.200	18.019	440.56569	-35022	-35699	-36714	-35871
1.200	20.226	440.50936	-40406	-40575	-41817	-41960
GRADIENT		-.00957	-.00250	-.00037	-.00278	-.00430



REFERENCE DATA
SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 MINMO = 2.000
LREF = 25.5100 INCHES YMRP = .0000 INCHES LANDAF = 70.000 ELEVTR = .000
BREF = 20.3597 INCHES ZMRP = .0000 INCHES BOFLAP = .000 RUOFLR = .000
SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 35/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	L/D
.349	-1.903	.00134	-.04899	.01967	-.00401	-.00367	.00115	-.00277	-.04791
.349	.038	.00158	.04359	.02164	-.00314	-.00367	.00065	-.00487	.04358
.349	2.214	.00455	.14150	.01932	-.00218	-.00370	.00004	-.00658	.14065
.349	4.254	.00644	.24228	.01336	-.00101	-.00368	-.00012	-.00861	.03130
.349	6.254	.00661	.34472	.00300	.00006	-.00369	-.00016	-.00869	.04046
.349	8.365	.00738	.44394	-.00956	.00119	-.00397	-.00046	-.00821	.05556
.349	10.290	.01149	.56182	-.01276	.00043	-.00586	-.00271	-.00541	.08781
.349	12.384	.00733	.65683	-.00538	.00130	-.00420	-.00207	-.01026	.13561
.349	14.662	.00993	.76910	-.00615	.00222	-.00257	.00066	-.01710	.18872
.349	16.768	.01179	.89369	-.01079	.00214	-.00164	.00051	-.01938	.24750
.348	18.853	.01220	.96805	-.01257	.00757	-.01190	-.01204	-.00995	.30793
.349	20.980	.01324	.97823	-.00174	.01326	-.00281	.00041	-.02119	.30862
GRADIENT		.00127	.04700	-.00104	.00048	-.00000	-.00021	-.00093	.00161

RUN NO. 34/ 0 RNVL = 1.88 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	L/D
.798	-2.019	.00305	-.05620	.01901	-.00545	-.00381	.00104	-.00190	-.05550
.800	.029	.00320	.04830	.02155	-.00525	-.00363	.00058	-.00475	.04829
.798	2.224	.00674	.16408	.02007	-.00492	-.00383	.00034	-.00795	.16318
.800	4.509	.01036	.29107	.01642	-.00471	-.00349	.00041	-.00794	.28888
.798	6.563	.01180	.39271	.01851	-.00399	-.00325	.00024	-.00994	.38802
.798	8.987	.01249	.50054	.02141	-.00360	-.00361	.00032	-.01082	.49105
.799	10.937	.01414	.58963	.02262	-.00236	-.00266	.00076	-.01390	.57463
.798	13.199	.01786	.72385	.02157	-.00419	-.00312	.00055	-.01608	.69981
.798	15.509	.02309	.83935	.02364	-.00310	-.00286	.00065	-.02068	.80247
.800	17.672	.02535	.88984	.02789	.00417	-.00357	-.00005	-.01981	.83939
.798	19.624	.02437	.91468	.03695	.00906	-.00380	.00050	-.02154	.84915
.798	21.599	.01804	.93682	.04611	.01248	-.00482	-.00044	-.01283	.85407
GRADIENT		.00279	.05318	-.00044	.00012	-.00004	-.00010	-.00118	.05274

PARAMETRIC DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 70.000 ELEVTR = .000
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUFLR = .000
 SCALE = .0188 SCALE

RUN NO. 33/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.149	-.00539	-.06876	.02720	-.00861	-.00215	.00168	-.00325	-.06770	.02976	-2.27473
.901	.062	.00286	.03820	.03149	-.00766	-.00065	.00111	-.00637	.03816	.03154	1.21015
.900	2.256	.00946	.16159	.02932	-.00779	-.00120	.00072	-.00917	.16031	.03566	4.49541
.899	4.531	.01190	.28238	.02832	-.00520	-.00255	.00062	-.01038	.27926	.05054	5.52589
.900	6.663	.01493	.39589	.03041	-.00613	-.00261	.00086	-.01338	.38969	.07614	5.11825
.898	8.947	.01593	.51812	.03345	-.00869	-.00371	.00071	-.01352	.50661	.11362	4.45875
.900	11.075	.01647	.63883	.03854	-.00874	-.00491	-.00038	-.00949	.59009	.15477	3.81275
.898	13.435	.02100	.73286	.04176	-.01217	-.00362	.00018	-.01498	.70310	.21089	3.33395
.899	15.336	.02242	.84515	.04516	-.01462	-.00422	.00072	-.01824	.80288	.26778	2.99824
.899	17.639	.02861	.94226	.04588	-.01033	-.00153	.00142	-.02555	.88406	.32925	2.68503
.898	19.786	.02630	.97347	.0458	-.00207	-.00623	-.00048	-.01649	.89752	.38089	2.35634
.897	21.809	.01974	.99298	.06041	.00270	-.00799	-.00033	-.01270	.89947	.42500	2.11640
GRADIENT		.00263	.05293	.00005	.00046	-.00008	-.00016	-.00109	.00231	.00000	1.19822

RUN NO. 32/ 0 RN/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.105	-.00743	-.11501	.06753	.00476	-.00374	.00224	-.00456	-.11245	.07171	-1.56825
.980	-.019	.00029	.01331	.06885	-.00082	-.00362	.00190	-.00788	.01333	.06984	.19091
.981	2.309	.00693	.16035	.06955	-.00708	-.00369	.00171	-.01114	.15742	.07595	2.07266
.980	4.536	.00981	.32923	.06997	-.01699	-.00337	.00187	-.01358	.32267	.09379	3.36861
.978	5.839	.01111	.48816	.07057	-.02580	-.00181	.00182	-.01419	.47628	.12820	3.71515
.978	9.011	.01129	.61617	.07204	-.03036	-.00339	.00193	-.01478	.59728	.16766	3.56243
.978	11.261	.01481	.75193	.07331	-.03591	-.00405	.00174	-.01626	.72314	.21874	3.30590
.978	13.471	.01772	.89786	.07562	-.04452	-.00746	.00198	-.01909	.85554	.28270	3.02632
.979	15.729	.02322	1.02379	.07635	-.04797	-.00690	.00170	-.02154	.96476	.35102	2.74842
.979	17.869	.02789	1.13323	.07887	-.05013	-.00234	.00163	-.02441	1.05436	.42279	2.49384
.978	20.221	.03019	1.22647	.07694	-.04540	-.00815	.00072	-.02249	1.12429	.49611	2.26620
GRADIENT		.00262	.06653	.00003	-.00322	.00005	-.00006	-.00136	.06517	.00355	.74969

DATE 07 JUL 73
 TABULATED SOURCE DATA-LARC 644
 (RP5011) (19 MAY 73)
 LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BAGVFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.3100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 31/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
1.200	-2.215	-.00321	-.09845	.07328	.00483	-.00305	.00141	-.00294	-.00554	.07703	-1.24041
1.200	.091	.00342	.03341	.07627	-.00313	-.00291	.00121	-.00672	.03329	.57632	.43621
1.201	2.272	.00812	.16190	.07745	-.01093	-.00283	.00137	-.00986	.15870	.08380	1.89374
1.200	4.439	.01038	.29893	.07739	-.01897	-.00228	.00147	-.01151	.29204	.10030	2.91179
1.200	6.986	.01208	.45418	.07684	-.02722	-.00231	.00162	-.01302	.44146	.13151	3.35699
1.200	9.016	.01276	.57616	.07637	-.03312	-.00262	.00183	-.01429	.55707	.16571	3.36172
1.200	11.244	.01444	.70503	.07645	-.03865	-.00232	.00223	-.01687	.67659	.21246	3.18454
1.200	13.556	.01789	.83719	.07640	-.04335	-.00245	.00238	-.01943	.79596	.27051	2.94243
1.200	15.857	.02141	.96130	.07616	-.04715	-.00300	.00253	-.02210	.90391	.33594	2.69072
1.200	18.089	.02449	1.06956	.07701	-.04887	-.00327	.00263	-.02434	.99278	.40530	2.44953
1.200	GRADIENT	.00233	.05962	.02061	-.00358	.00011	.00001	-.00131	.05816	.00347	.62912

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5P11) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN.
 LREF = 25.3100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUCFLR = .000

RUN NO. 35/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-1.903	166.35174	-.02525	-.05766	-.09057	-.04627
.349	.038	166.35150	-.02814	-.05957	-.09394	-.04147
.349	2.214	166.53916	-.03003	-.06190	-.09480	-.04095
.349	4.254	166.44533	-.03198	-.06576	-.09966	-.04049
.349	6.254	166.53916	-.03244	-.06620	-.10345	-.04622
.349	8.365	166.35174	-.03392	-.07153	-.10933	-.05251
.349	10.290	166.44557	-.04064	-.08250	-.11408	-.06496
.349	12.384	166.35221	-.05512	-.10073	-.12521	-.08132
.349	14.662	166.25838	-.08938	-.10844	-.10843	-.10202
.349	16.768	166.35244	-.11102	-.12849	-.12761	-.12789
.348	18.853	165.60262	-.14055	-.17424	-.17118	-.16848
.349	20.980	165.79057	-.21099	-.24944	-.24436	-.23092
GRADIENT		.02298	-.00107	-.00129	-.00136	.00086

RUN NO. 34/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.019	310.47079	-.01179	-.02865	-.03983	-.02049
.800	.029	311.32465	-.02109	-.03017	-.03028	-.02101
.798	2.224	310.62390	-.02134	-.02992	-.02848	-.02408
.800	4.509	311.43569	-.02314	-.03424	-.03463	-.02535
.798	6.563	310.55670	-.03037	-.04351	-.04163	-.03437
.793	8.987	310.55670	-.04018	-.06428	-.06791	-.04980
.799	10.937	311.02060	-.05871	-.09135	-.08817	-.06928
.798	13.199	310.33636	-.08075	-.12075	-.12100	-.09950
.798	15.509	310.55046	-.12433	-.18016	-.20398	-.14650
.800	17.672	311.28899	-.19774	-.25983	-.29532	-.22010
.798	19.624	310.40358	-.28631	-.35670	-.40130	-.31432
.798	21.599	310.55046	-.39846	-.47113	-.52738	-.43120
GRADIENT		.10020	-.00155	-.00076	-.00076	-.00081

TABULATED SOURCE DATA-LARC 644

DATE 07 JUL 73

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (Bx2VFB) (RP3P11) (19 MAY 73)

REFERENCE DATA
 XREF = 171.4720 SQ.IN.
 YREF = 23.5100 INCHES
 ZREF = 20.3597 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA
 BETA = .000 WINGNO = 2.000
 LAMCAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 33/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.900	-2.149	355.12408	-.00419	-.01224	-.00372	-.01428
.901	.062	355.75481	-.00179	-.01178	-.00238	-.01403
.900	2.256	355.18355	-.00620	-.01336	-.00596	-.01315
.899	4.531	354.95470	.00000	-.02212	-.01361	-.00866
.900	6.663	355.21090	-.02244	-.04676	-.03004	-.03024
.898	8.947	354.45097	-.05686	-.10345	-.06939	-.07559
.900	11.075	355.43956	-.10249	-.16522	-.11964	-.11628
.898	13.435	354.21244	-.15127	-.22220	-.17427	-.16290
.899	15.386	354.89518	-.19571	-.26597	-.22300	-.22358
.899	17.639	354.83564	-.29107	-.32772	-.32349	-.30307
.898	19.786	354.64788	-.40085	-.46056	-.44980	-.42483
.897	21.809	354.23051	-.48460	-.55550	-.56577	-.51574
	GRADIENT	-.04879	.00037	-.00141	-.00150	.00080

RUN NO. 32/ 0 RV/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.980	-2.105	385.69038	-.15640	-.15270	-.16027	-.16909
.980	-.019	385.24831	-.15405	-.14788	-.16063	-.16987
.981	2.309	385.34006	-.15802	-.15307	-.16999	-.17922
.980	4.536	385.26346	-.17150	-.16997	-.18719	-.19556
.978	6.839	384.54285	-.19780	-.19650	-.21681	-.22035
.978	9.011	384.72628	-.23422	-.23080	-.25544	-.25102
.978	11.261	384.71119	-.28133	-.27718	-.30227	-.29505
.978	13.471	384.71119	-.32676	-.32023	-.35115	-.34467
.979	15.729	385.26192	-.36896	-.36918	-.39512	-.39581
.979	17.869	385.06285	-.43691	-.43397	-.45382	-.45129
.978	20.221	384.32925	-.47800	-.48597	-.47802	-.49081
	GRADIENT	-.05241	-.00223	-.00259	-.00407	-.00401

REFERENCE DATA

SREF = 171.4720 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LANDAF = 70.000 ELEVTR = .000
 BDPLAP = .000 RUDFLR = .000

PARAMETRIC DATA

RUN NO. 31/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.215	440.47847	-21701	-22021	-22085	-21730
1.200	.091	440.50755	-21951	-21890	-21862	-22415
1.201	2.272	440.65868	-22386	-21798	-22570	-23501
1.200	4.439	440.60831	-23515	-22485	-23805	-24789
1.200	6.986	440.60831	-25225	-24437	-25586	-26221
1.200	9.016	440.48033	-26564	-25983	-27105	-27429
1.200	11.244	440.48033	-28511	-28496	-29213	-29242
1.200	13.556	440.45128	-31009	-31754	-32398	-31876
1.200	15.857	440.50755	-32650	-33112	-34217	-33620
1.200	18.089	440.62382	-35793	-36270	-37320	-36589
1.200	GRADIENT	.02445	-00264	-00054	-00263	-00462

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5012) (19 MAY 73)

LARC 8-FT TFT 644 LO-100 ORBITER (SHIPS) (BACVFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 15/ 0 RV/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-2.051	-.00136	-.05519	.01943	-.00466	-.00361	.00093	-.00186	-.05446	.02139	-2.54565
.350	.042	.00232	.03702	.02161	-.00334	-.00348	.00046	-.00511	.03701	.02164	1.71004
.349	2.139	.00522	.13429	.01973	-.00174	-.00355	-.00008	-.00702	.13346	.02473	5.39750
.348	4.233	.00665	.23964	.01395	.00016	-.00366	-.00023	-.00849	.23796	.03160	7.53056
.348	6.327	.00627	.34453	.00367	.00187	-.00386	-.00033	-.00759	.34203	.04162	8.21850
.349	8.416	.00730	.45381	-.00793	.00367	-.00384	-.00036	-.00897	.45009	.05858	7.69343
.349	10.518	.00895	.57549	-.01390	.00318	-.00462	-.00075	-.00881	.56836	.09139	6.21932
.348	12.606	.00862	.67014	-.00353	.00585	-.00299	.00050	-.01450	.65475	.14281	4.58486
.349	14.712	.01084	.77982	-.00343	.00687	-.00354	.00031	-.01707	.75513	.19473	3.87782
.349	16.850	.01374	.94562	-.01274	.00604	-.00187	.00030	-.02149	.90872	.26192	3.45950
.349	18.948	.01495	1.05472	-.01974	.01095	-.00748	-.00122	-.01737	1.00398	.32382	3.10046
.349	20.974	.01172	1.04975	-.01232	.02135	-.01180	-.00139	-.01208	.98461	.36426	2.70307
.349		.00129	.04686	-.00087	.00077	-.00001	-.00019	-.00104	.04648	.00161	1.61898

RUN NO. 14/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.102	-.00372	-.06297	.01932	-.00583	-.00408	.00108	-.00158	-.06221	.02162	-2.87769
.798	.071	.00390	.04875	.02206	-.00493	-.00390	.00055	-.00516	.04872	.02213	2.20199
.799	2.269	.00951	.16406	.02048	-.00421	-.00404	.00029	-.00834	.16312	.02696	6.05023
.799	4.475	.01117	.29048	.01704	-.00326	-.00375	.00033	-.00976	.28827	.03965	7.26942
.799	6.642	.01234	.39788	.01921	-.00224	-.00300	.00034	-.01073	.39299	.06510	6.03687
.798	8.793	.01283	.49654	.02187	-.00143	-.00291	.00073	-.01274	.48737	.09752	4.99783
.799	10.986	.01468	.60555	.02326	.00020	-.00352	.00085	-.01469	.59002	.13824	4.26821
.799	13.197	.01897	.73592	.02460	-.00107	-.00402	.00039	-.01623	.71086	.19197	3.70307
.799	15.423	.02380	.88016	.02285	-.00184	-.00326	.00069	-.02136	.84239	.25610	3.28929
.799	17.637	.02736	.98234	.02262	.00211	-.00432	.00030	-.02281	.92948	.31871	2.91638
.799	19.737	.02656	1.01502	.02801	.01302	-.00742	-.00029	-.02706	.94613	.36865	2.56646
.798	21.746	.03012	1.00523	.03896	.02095	-.00258	-.00094	-.02821	.91926	.40862	2.24970
.799		.00229	.05362	-.00039	.00038	.00004	-.00011	-.00126	.05317	.00269	1.56237

GRADIENT

(19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B142VFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 13/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.159	-.00544	-.07741	.02774	-.00784	-.00341	.00235	-.00595	-.07631	.05064	-2.49068
.900	.050	.00222	.03488	.03111	-.00697	-.00256	.00178	-.00867	.03485	.03114	1.11893
.899	2.279	.00828	.15642	.03045	-.00639	-.00179	.00143	-.01126	.15708	.03672	4.27741
.899	4.499	.01284	.27433	.02756	-.00325	-.00424	.00061	-.01095	.27132	.04899	5.53785
.899	6.726	.01434	.40547	.03111	-.00515	-.00290	.00145	-.01541	.39904	.07838	5.09078
.900	8.944	.01643	.52208	.03339	-.00590	-.00455	.00117	-.01165	.51054	.11416	4.47234
.899	11.114	.01892	.60895	.03937	-.00383	-.00353	.00020	-.01353	.58994	.15602	3.78127
.899	13.306	.02155	.73112	.04409	-.00688	-.00358	.00063	-.01717	.70135	.21118	3.03820
.900	15.569	.02353	.87687	.04058	-.00926	-.00436	.00122	-.01909	.83380	.27444	2.73095
.899	17.809	.02753	1.00756	.04052	-.00876	-.00431	.00122	-.02401	.94589	.34672	2.39596
.901	19.954	.02990	1.05647	.04983	.00132	-.00455	.00157	-.02730	.97604	.40737	1.22686
		.00274	.05309	-.00705	.00165	-.00708	-.00025	-.00709	.05248	.00273	

RUN NO. 12/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.206	-.00879	-.12783	.06598	.00536	-.00398	.00253	-.00492	-.12520	.07085	-1.76707
.980	.053	.00195	.01498	.06796	-.00095	-.00364	.00201	-.00935	.01491	.06797	.21939
.979	2.287	.00752	.15649	.06805	-.00622	-.00352	.00168	-.01141	.15365	.07424	2.06959
.979	4.566	.01062	.32717	.06800	-.01478	-.00346	.00163	-.01309	.32072	.09383	3.41803
.981	6.815	.01169	.48568	.07087	-.02308	-.00229	.00179	-.01440	.47384	.12800	3.70201
.981	9.065	.01251	.62228	.07167	-.02740	-.00437	.00201	-.01585	.60321	.16882	3.57316
.979	11.311	.01474	.77569	.07557	-.03559	-.00364	.00191	-.01690	.74580	.22623	3.29660
.979	13.560	.02105	.91812	.07559	-.04175	-.00306	.00109	-.01758	.87480	.28875	3.02959
.980	15.783	.02430	1.03315	.07630	-.04150	-.00574	.00104	-.01955	.97344	.35443	2.74648
.980	18.021	.02942	1.15272	.07980	-.04233	-.00303	.00089	-.02240	1.07154	.43231	2.47862
.980	20.240	.03279	1.27204	.08115	-.04337	-.00365	.00094	-.02504	1.16542	.51619	2.25773
		.00283	.06682	.00227	-.00291	-.00007	-.00013	-.00118	.06549	.00334	.77168

PARAMETRIC DATA

BETA	=	.000	WINNO	=	2.000
LAVCAF	=	75.000	ELEVTR	=	.000
BDFLAP	=	.000	RUCFLR	=	.000

REFERENCE DATA

SREF =	171.4720 SQ.IN.	XMRP =	16.8633 INCHES
LRFP =	23.5100 INCHES	YMRP =	.0000 INCHES
ZREF =	20.3597 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0188 SCALE		

Variable	Estimate	SE	t-Statistic	p-Value	Gradient Interval
Intercept	1.00	0.00	1.00	0.00	1.00
Variable 1	0.50	0.10	5.00	0.00	0.30
Variable 2	-0.20	0.05	-4.00	0.00	-0.30
Variable 3	0.10	0.02	5.00	0.00	0.06
Variable 4	0.00	0.01	0.00	1.00	-0.01
Variable 5	0.00	0.01	0.00	1.00	-0.01
Variable 6	0.00	0.01	0.00	1.00	-0.01
Variable 7	0.00	0.01	0.00	1.00	-0.01
Variable 8	0.00	0.01	0.00	1.00	-0.01
Variable 9	0.00	0.01	0.00	1.00	-0.01
Variable 10	0.00	0.01	0.00	1.00	-0.01
Variable 11	0.00	0.01	0.00	1.00	-0.01
Variable 12	0.00	0.01	0.00	1.00	-0.01
Variable 13	0.00	0.01	0.00	1.00	-0.01
Variable 14	0.00	0.01	0.00	1.00	-0.01
Variable 15	0.00	0.01	0.00	1.00	-0.01
Variable 16	0.00	0.01	0.00	1.00	-0.01
Variable 17	0.00	0.01	0.00	1.00	-0.01
Variable 18	0.00	0.01	0.00	1.00	-0.01
Variable 19	0.00	0.01	0.00	1.00	-0.01
Variable 20	0.00	0.01	0.00	1.00	-0.01
Variable 21	0.00	0.01	0.00	1.00	-0.01
Variable 22	0.00	0.01	0.00	1.00	-0.01
Variable 23	0.00	0.01	0.00	1.00	-0.01
Variable 24	0.00	0.01	0.00	1.00	-0.01
Variable 25	0.00	0.01	0.00	1.00	-0.01
Variable 26	0.00	0.01	0.00	1.00	-0.01
Variable 27	0.00	0.01	0.00	1.00	-0.01
Variable 28	0.00	0.01	0.00	1.00	-0.01
Variable 29	0.00	0.01	0.00	1.00	-0.01
Variable 30	0.00	0.01	0.00	1.00	-0.01
Variable 31	0.00	0.01	0.00	1.00	-0.01
Variable 32	0.00	0.01	0.00	1.00	-0.01
Variable 33	0.00	0.01	0.00	1.00	-0.01
Variable 34	0.00	0.01	0.00	1.00	-0.01
Variable 35	0.00	0.01	0.00	1.00	-0.01
Variable 36	0.00	0.01	0.00	1.00	-0.01
Variable 37	0.00	0.01	0.00	1.00	-0.01
Variable 38	0.00	0.01	0.00	1.00	-0.01
Variable 39	0.00	0.01	0.00	1.00	-0.01
Variable 40	0.00	0.01	0.00	1.00	-0.01
Variable 41	0.00	0.01	0.00	1.00	-0.01
Variable 42	0.00	0.01	0.00	1.00	-0.01
Variable 43	0.00	0.01	0.00	1.00	-0.01
Variable 44	0.00	0.01	0.00	1.00	-0.01
Variable 45	0.00	0.01	0.00	1.00	-0.01
Variable 46	0.00	0.01	0.00	1.00	-0.01
Variable 47	0.00	0.01	0.00	1.00	-0.01
Variable 48	0.00	0.01	0.00	1.00	-0.01
Variable 49	0.00	0.01	0.00	1.00	-0.01
Variable 50	0.00	0.01	0.00	1.00	-0.01
Variable 51	0.00	0.01	0.00	1.00	-0.01
Variable 52	0.00	0.01	0.00	1.00	-0.01
Variable 53	0.00	0.01	0.00	1.00	-0.01
Variable 54	0.00	0.01	0.00	1.00	-0.01
Variable 55	0.00	0.01	0.00	1.00	-0.01
Variable 56	0.00	0.01	0.00	1.00	-0.01
Variable 57	0.00	0.01	0.00	1.00	-0.01
Variable 58	0.00	0.01	0.00	1.00	-0.01
Variable 59	0.00	0.01	0.00	1.00	-0.01
Variable 60	0.0				

PARAM	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.155	-0.00418	-0.09787	0.07286	0.00469	-0.00350	0.00117	-0.00251	-0.09506	0.07649	-1.24277
1.200	0.073	0.00282	0.03140	0.07589	-0.00238	-0.00345	0.00112	-0.00603	0.03130	0.07593	0.41226
1.200	2.311	0.00808	0.16189	0.07689	-0.00963	-0.00305	0.00128	-0.00947	0.15866	0.08366	1.90341
1.200	4.575	0.01007	0.30477	0.07701	-0.01733	-0.00227	0.00140	-0.01105	0.28765	0.10108	2.94484
1.200	6.837	0.01072	0.44385	0.07648	-0.02402	-0.00248	0.00162	-0.01232	0.43159	0.12878	3.35145
1.200	9.115	0.01207	0.58279	0.07622	-0.03003	-0.00235	0.00189	-0.01417	0.56335	0.16758	3.36171
1.200	11.367	0.01441	0.71482	0.07580	-0.03472	-0.00266	0.00212	-0.01642	0.68586	0.21520	3.18708
1.200	13.630	0.01876	0.84653	0.07593	-0.03910	-0.00276	0.00219	-0.01914	0.80480	0.27328	2.94499
1.200	15.903	0.02236	0.97303	0.07584	-0.04209	-0.00346	0.00238	-0.02198	0.91497	0.33956	2.69459
1.200	18.142	0.02619	1.08398	0.07633	-0.04368	-0.00439	0.00256	-0.02501	1.007633	0.41005	2.45414
1.200	19.534	0.02878	1.133912	0.07701	-0.04130	-0.00447	0.00240	-0.02596	1.04781	0.45346	2.31071
GRADIENT		0.00214	0.00160	0.00060	-0.00327	-0.00018	0.00004	-0.00129	0.05821	0.00363	0.62639

(RP5P12) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 15/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.350	-2.051	165.72538	-.02616	-.05611	-.08896	-.03613
.350	.042	166.53750	-.02811	-.05712	-.09050	-.03521
.349	2.139	165.97569	-.03012	-.05922	-.09321	-.03387
.348	4.233	165.32034	-.03120	-.06185	-.09937	-.03448
.348	6.327	165.22670	-.03218	-.06526	-.10330	-.03788
.349	8.416	165.78916	-.03595	-.07033	-.10634	-.04258
.349	10.518	165.88278	-.04222	-.08277	-.10870	-.05797
.348	12.606	165.62169	-.06164	-.09878	-.10694	-.07254
.349	14.712	165.69555	-.09934	-.10978	-.10640	-.10576
.349	16.850	165.69555	-.10921	-.12227	-.11896	-.12023
.349	18.949	165.88278	-.11518	-.15286	-.14199	-.14369
.349	20.974	165.88301	-.18282	-.22582	-.21726	-.20774
	GRADIENT	-.22804	-.00082	-.00092	-.00162	-.00030

RUN NO. 14/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.102	311.22191	-.01129	-.02735	-.03568	-.01844
.798	.071	310.61142	-.02005	-.02942	-.03005	-.02410
.799	2.269	310.88007	-.02005	-.02941	-.02901	-.02332
.799	4.475	310.88007	-.02289	-.03504	-.03648	-.02692
.799	6.642	310.81293	-.03011	-.04324	-.04137	-.03412
.798	8.793	310.74577	-.04326	-.06119	-.05631	-.05032
.799	10.986	310.94721	-.06207	-.08907	-.08435	-.07291
.799	13.197	311.08145	-.09941	-.10850	-.10773	-.10499
.799	15.423	311.08145	-.12079	-.13588	-.13320	-.13144
.799	17.607	311.01433	-.16566	-.19428	-.19139	-.18360
.798	19.707	310.74577	-.25116	-.31614	-.32753	-.27244
.799	21.746	310.94721	-.36417	-.44322	-.48769	-.37144
	GRADIENT	-.03426	-.00158	-.00105	-.00007	-.00112



DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RP5P12) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (Bw2VFB)

REFERENCE DATA
SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
LREF = 25.5100 INCHES YMRP = .0000 INCHES LARCAF = 75.000 ELEVTR = .000
BREF = 20.3597 INCHES ZMRP = .0000 INCHES SCFLAP = .000 RUFLR = .000
SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 13/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.159	354.99601	-.00115	-.01202	-.00036	-.01159
.900	.050	355.30244	-.00245	-.01582	-.00328	-.01563
.899	2.279	355.00511	-.00442	-.01247	-.00350	-.01181
.899	4.499	354.80838	-.00530	-.02302	-.02309	-.00979
.899	6.726	355.01421	-.02877	-.04791	-.03480	-.03589
.900	8.944	355.37100	-.05288	-.10636	-.07148	-.07003
.899	11.114	355.06460	-.10530	-.17685	-.11663	-.11823
.899	13.306	354.70745	-.16799	-.19568	-.17586	-.17465
.900	15.569	355.18355	-.17928	-.24427	-.25810	-.18747
.899	17.809	354.95470	-.23923	-.28323	-.30584	-.25713
.901	19.954	355.60860	-.38913	-.41221	-.40589	-.40448
GRADIENT		-.03884	-.00065	-.00133	-.00308	.00042

RUN NO. 12/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.206	385.29378	-.15168	-.14474	-.15768	-.16592
.980	.053	385.29378	-.14939	-.14102	-.16059	-.16778
.979	2.287	385.14054	-.15617	-.15043	-.17319	-.18056
.979	4.566	385.01816	-.17076	-.16844	-.18734	-.19449
.981	6.815	385.78553	-.21627	-.21159	-.23504	-.23670
.981	9.065	385.56899	-.24821	-.24373	-.27068	-.26709
.979	11.311	384.86440	-.29751	-.28980	-.31995	-.31294
.979	13.560	384.91041	-.33353	-.32517	-.35841	-.35112
.980	15.783	385.76658	-.38739	-.38015	-.41733	-.41057
.980	18.021	385.30893	-.44601	-.43816	-.46966	-.46985
.980	20.240	385.24787	-.48996	-.48865	-.50442	-.51946
GRADIENT		-.04347	-.00284	-.00357	-.00451	-.00437

(RP5P12) (19 MAY 75)
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
LAMCAF = 75.000 ELEVTR = .000
BDFLAP = .000 RUFLR = .000

RUN NO. 11/ D RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.155	440.68776	-.21563	-.21908	-.22021	-.21563
1.200	.073	440.58700	-.21946	-.21673	-.21949	-.22525
1.200	2.311	440.68776	-.22418	-.21691	-.22711	-.23594
1.200	4.575	440.68776	-.23473	-.22468	-.23873	-.24899
1.200	6.837	440.58700	-.24820	-.23932	-.25291	-.26024
1.200	9.115	440.67421	-.26661	-.26141	-.27383	-.27623
1.200	11.367	440.63287	-.28730	-.28540	-.29668	-.29541
1.200	13.630	440.50168	-.30353	-.30802	-.31634	-.31303
1.200	15.903	440.67421	-.32136	-.32844	-.34104	-.33388
1.200	18.142	440.67421	-.35118	-.35645	-.36846	-.35962
1.200	19.534	440.50755	-.39855	-.40152	-.41685	-.40665
1.200	GRADIENT	.00452	-.00277	-.00176	-.00282	-.00494

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RF5013) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B-2VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LANDAF = 78.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0189 SCALE

RUN NO. 30/ 0 RN/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.340	-2.116	.00145	-.06022	.02012	-.00326	-.00382	.00115	-.00262	-.05944	.02233	-2.66164
.348	.056	.00230	.04086	.02259	-.00304	-.00376	.00069	-.00605	.04084	.02263	1.80488
.348	2.156	.00464	.13971	.02067	-.00095	-.00383	-.00003	-.00642	.13883	.02592	5.35718
.348	4.242	.00645	.24422	.01440	.00173	-.00365	-.00022	-.01826	.24248	.03243	7.47769
.348	6.353	.00660	.34552	.00495	.00384	-.00386	-.00026	-.00835	.34285	.04315	7.94522
.347	8.424	.00685	.45772	-.00614	.00659	-.00389	-.00054	-.00768	.45368	.06098	7.43948
.347	10.479	.01090	.58128	-.00799	.00716	-.00597	-.00257	-.00537	.57303	.09786	5.85538
.347	12.714	.00911	.69569	-.00231	.01016	-.00462	-.00018	-.01259	.67914	.15086	4.50167
.347	14.942	.01193	.82843	-.00255	.01201	-.00198	.00018	-.01832	.80108	.21114	3.79405
.347	16.908	.01445	.96783	-.00852	.01164	-.00244	.00021	-.02236	.92847	.27332	3.39700
.347	18.997	.01709	1.13192	-.01866	.01233	-.00301	.00007	-.02551	1.07634	.35083	3.06802
.347	21.136	.01791	1.24122	-.02584	.01891	-.00705	-.00109	-.02301	1.16704	.42345	2.75603
.346	GRADIENT	.00123	.04780	-.00189	.00109	.00002	-.00023	-.00082	.04740	.00158	1.60638

RUN NO. 29/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.600	-2.116	.00211	-.06222	.01587	-.00677	-.00393	.00126	-.00332	-.06144	.02216	-2.77299
.799	.062	.00451	.04991	.02225	-.00509	-.00376	.00068	-.00616	.04988	.02231	2.25612
.799	2.225	.00865	.15981	.02082	-.00357	-.00384	.00018	-.00723	.15888	.02701	5.88134
.799	4.535	.01102	.29135	.01740	-.00176	-.00329	.00028	-.00946	.28905	.04059	7.12194
.799	6.661	.01328	.39634	.01948	-.00015	-.00409	.00004	-.01024	.39140	.06532	5.99175
.800	8.820	.01365	.49403	.02325	.00197	-.00259	.00031	-.01163	.48462	.08872	4.90896
.798	11.032	.01563	.61111	.02435	.00338	-.00289	.00019	-.01275	.59515	.14084	4.22587
.799	13.247	.01999	.74132	.02517	.00300	-.00203	.00060	-.01789	.71582	.19437	3.68273
.796	15.531	.02422	.88733	.02408	.00352	-.00335	.00008	-.01925	.84849	.26079	3.25346
.799	17.635	.02766	1.00392	.02322	.00664	-.00406	.00018	-.02238	.94971	.32628	2.91073
.798	19.876	.03081	1.09321	.02270	.01411	-.00516	-.00044	-.02291	1.02036	.39304	2.59604
.798	21.868	.02607	1.07202	.02290	.02988	-.00966	-.00213	-.01232	.98264	.42982	2.28615
.798	GRADIENT	.00200	.05295	-.00038	.00075	.00008	-.00015	-.00088	.05249	.00273	1.50128

(RP5013) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

REFERENCE DATA

SREF = 171.4720 58.1N. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 78.000 ELEVTR = .000
 BCFAP = .000 RUFLR = .000

RUN NO. 28/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.092	.00526	-.06567	.02895	-.01010	-.00153	.00206	-.00487	-.06437	.03133	-2.06077
.900	.126	.00331	.04823	.03089	-.00829	-.00092	.00116	-.00689	.04817	.03100	1.55398
.899	2.341	.00969	.16598	.02926	-.00653	-.00125	.00075	-.00942	.16463	.03601	4.57170
.899	4.802	.01238	.28258	.02890	-.00189	-.00198	.00076	-.01127	.27935	.05148	5.42661
.898	6.765	.01402	.41144	.03083	-.00363	-.00325	.00083	-.01268	.40494	.07908	5.12036
.898	8.950	.01691	.51899	.03373	-.00211	-.00375	.00064	-.01389	.50742	.11406	4.44860
.898	11.152	.01585	.61978	.03730	-.00070	-.00304	.00249	-.02077	.60086	.15646	3.84029
.899	13.477	.02122	.75346	.04379	-.00211	-.00270	.00160	-.02089	.72250	.21819	3.71139
.899	15.654	.02421	.90096	.04183	-.00387	-.00300	.00100	-.02065	.85626	.28338	3.02160
.899	17.957	.02750	1.01955	.04099	-.00126	-.00368	.00143	-.02484	.95724	.35332	2.70929
.898	20.059	.02845	1.09099	.04643	.00742	-.00481	.00097	-.02391	1.00889	.41781	2.41473
.898	22.154	.02811	1.11955	.05262	.01945	-.00527	.00047	-.02195	1.01705	.47091	2.15978
	GRADIENT	.00266	.05214	-.00208	.00119	-.00008	-.00019	-.00097	.05150	.00294	1.14137

RUN NO. 27/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.117	-.00684	-.11797	.06512	.00389	-.00408	.00221	-.00481	-.11549	.06943	-1.66341
.980	.053	.00122	.01938	.06762	-.00077	-.00374	.00204	-.00901	.01932	.06764	.28558
.980	2.309	.00696	.16443	.06713	-.00521	-.00391	.00156	-.01055	.16159	.07370	2.19239
.980	4.597	.01004	.33330	.06878	-.01347	-.00348	.00193	-.01394	.32672	.09527	3.42920
.980	6.852	.01190	.49076	.07146	-.02037	-.00188	.00210	-.01578	.47885	.12850	3.72636
.979	9.334	.01391	.63833	.07080	-.02305	-.00369	.00220	-.01750	.61840	.17339	3.56655
.982	11.326	.01520	.77182	.07520	-.02967	-.00408	.00236	-.01899	.74202	.22531	3.29338
.978	13.658	.02036	.93012	.07725	-.03531	-.00355	.00228	-.02198	.88558	.29468	3.00521
.979	15.860	.02315	1.03940	.07667	-.03332	-.00389	.00243	-.02446	.97888	.33780	2.73586
.980	18.113	.02743	1.16784	.08015	-.03257	-.00488	.00214	-.02619	1.07840	.43708	2.46727
.979	20.375	.03042	1.27729	.07839	-.03190	-.00402	.00171	-.02666	1.17108	.51819	2.25803
	GRADIENT	.00251	.06695	.00047	-.00253	.00007	-.00006	-.00129	.06561	.00376	.76636

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5013) (19 MAY 73) LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 90.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA =
 LAMDAF =
 BDFLAP =

.000 WINGNO = 2.000
 78.000 ELEVTR = .000
 .000 RUOFLR = .000

RUN NO. 26/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.208	-.00407	-.10033	.07237	.00373	-.00303	.00127	-.00298	-.09747	.07618	-1.27950
1.200	.148	.00344	.03682	.07597	-.00324	-.00269	.00124	-.00687	.03662	.07606	.46148
1.201	2.400	.00855	.17044	.07757	-.00971	-.00234	.00130	-.00980	.16704	.08464	1.97346
1.202	4.632	.01045	.30844	.07780	-.01618	-.00196	.00146	-.01148	.30116	.10225	2.94520
1.200	6.843	.01164	.44334	.07715	-.02180	-.00194	.00165	-.01292	.43099	.12043	3.33002
1.200	9.116	.01254	.58156	.07651	-.02682	-.00244	.00193	-.01456	.56203	.16769	3.35204
1.200	11.418	.01471	.71847	.07664	-.03049	-.00282	.00237	-.01757	.68908	.21735	3.17041
1.200	13.670	.01924	.84997	.07663	-.03360	-.00255	.00227	-.01974	.80778	.27533	2.93392
1.199	15.939	.02232	.97559	.07642	-.03542	-.00383	.00256	-.02272	.91709	.34140	2.68631
1.200	18.170	.02624	1.08912	.07644	-.03625	-.00458	.00278	-.02595	1.01097	.41225	2.45233
1.200	19.632	.02866	1.15836	.07586	-.03556	-.00380	.00272	-.02719	1.06554	.46063	2.31324
1.200		.03214	.05971	.00076	-.00291	.00016	.00003	-.00125	.05823	.00379	.62289

GRADIENT

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RF5P13) (19 MAY 73)
LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BW2VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LANEAF = 78.000 ELEVTR = .000
BDPLAP = .000 RUOFLR = .000

REFERENCE DATA

SREF = 171.4720 SQ. IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

RUN NO. 30/ 0 RN/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.116	165.22833	-.02297	-.05609	-.08947	-.04221
.348	.056	165.50923	-.02584	-.05792	-.08981	-.03828
.348	2.156	165.50923	-.02777	-.06033	-.09222	-.03311
.348	4.242	165.41537	-.02924	-.06277	-.09953	-.04458
.348	6.353	164.85282	-.03322	-.06635	-.09938	-.05344
.347	8.424	164.29107	-.03478	-.07141	-.10263	-.06742
.347	10.479	164.10394	-.03970	-.08167	-.10274	-.06827
.347	12.714	164.10394	-.07731	-.09138	-.08762	-.08628
.347	14.842	164.29175	-.09967	-.11066	-.10896	-.11486
.347	16.908	164.19808	-.10217	-.12720	-.12023	-.13195
.347	18.997	164.10417	-.10027	-.14668	-.13103	-.14760
.346	21.136	163.72895	-.11126	-.18201	-.15674	-.17183
GRADIENT		.02688	-.00098	-.00106	-.00153	-.00156

RUN NO. 29/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.116	311.49018	-.01413	-.02734	-.02936	-.02100
.799	.062	311.14855	-.01825	-.02863	-.02783	-.02254
.799	2.225	311.08145	-.01902	-.03042	-.02989	-.02305
.799	4.535	311.14855	-.01354	-.03374	-.03915	-.02408
.799	6.661	311.14855	-.02778	-.04398	-.04918	-.03435
.800	8.820	311.55721	-.04500	-.06260	-.06224	-.05355
.798	11.032	310.74577	-.06931	-.07962	-.07806	-.07651
.799	13.247	310.88077	-.10565	-.11076	-.11228	-.11169
.798	15.531	310.47703	-.12667	-.13479	-.13534	-.13367
.799	17.635	310.88077	-.16185	-.17510	-.17278	-.16949
.798	19.876	310.47703	-.22425	-.25171	-.24800	-.24517
.798	21.868	310.47703	-.33913	-.40811	-.41427	-.37728
GRADIENT		-.04886	-.00076	-.00095	-.00144	-.00244



REFERENCE DATA PARAMETRIC DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 2.000
LREF = 23.5100 INCHES YMRP = .0000 INCHES LANDAF = 76.000 ELEVTR = .000
BREF = 20.3597 INCHES ZMRP = .0000 INCHES BOFLAP = .000 RUOFLR = .000
SCALE = .0100 SCALE

RUN NO.		26/ 0	RV/L = 1.98	GRADIENT INTERVAL = -5.00/ 5.00		
MACH	ALPHA	Q (PSF)	CPB1	CPB2	CPC1	CPC2
.900	-2.092	355.21090	.00128	-.00865	.00154	-.01045
.900	.126	355.48983	-.00242	-.01178	-.00249	-.01359
.899	2.341	354.69837	-.00286	-.01091	-.00227	-.00866
.899	4.602	354.77609	-.00242	-.02257	-.01124	-.00821
.898	6.765	354.46909	-.02452	-.04213	-.03247	-.03165
.898	8.950	354.53776	-.04735	-.10140	-.07084	-.05913
.898	11.152	354.46909	-.08534	-.15442	-.15305	-.11839
.899	13.477	354.88609	-.16833	-.19035	-.17497	-.17159
.899	15.654	354.77609	-.18694	-.23057	-.21856	-.20701
.899	17.957	354.94561	-.24037	-.27936	-.28498	-.26652
.898	20.059	354.59736	-.33294	-.37904	-.36336	-.36318
.898	22.154	354.40946	-.45851	-.51292	-.50311	-.48822
	GRADIENT	-.09389	-.00052	-.00184	-.00171	.00052

RUN NO.		27/ 0	RV/L = 2.04	GRADIENT INTERVAL = -5.00/ 5.00			
MACH	ALPHA	Q (PSF)	CPB1	CPB2	CPC1	CPC2	
.980	-2.117	385.14088	-.14854	-.14385	-.15381	-.16254	
.980	.053	385.11008	-.14684	-.14051	-.15607	-.16479	
.980	2.309	385.04900	-.14977	-.14424	-.16190	-.17144	
.980	4.597	385.04900	-.16975	-.16760	-.18372	-.19239	
.980	6.852	385.29330	-.19842	-.19808	-.21899	-.22239	
.979	9.334	384.71331	-.23963	-.23887	-.26975	-.26391	
.982	11.326	385.72433	-.30433	-.30024	-.33406	-.32376	
.978	13.656	384.96825	-.32030	-.31827	-.34800	-.34241	
.979	15.660	385.61213	-.37604	-.37827	-.40713	-.40226	
.980	18.113	385.33922	-.44428	-.44089	-.46263	-.45702	
.979	20.375	384.85062	-.67431	-.67792	-.50530	-.49752	
	GRADIENT	-.01500	-.00300	-.00338	-.00429	-.00432	

TABULATED SOURCE DATA-LARC 644

(RF5P13) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

REFERENCE DATA

SREF = 171.4720 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 26/ 0 RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
1.200	-2.208	440.53073	-.21433	-.21736	-.21898	-.21463
1.200	.148	440.55208	-.21692	-.21470	-.21539	-.22211
1.201	2.400	440.76499	-.22499	-.21603	-.22727	-.23722
1.202	4.632	440.84983	-.23443	-.22361	-.23852	-.24808
1.200	6.843	440.55977	-.24430	-.23575	-.24873	-.25628
1.200	9.116	440.45117	-.26773	-.25993	-.27250	-.27746
1.200	11.418	440.57343	-.28918	-.27979	-.29137	-.29865
1.200	13.670	440.37184	-.30925	-.31146	-.31904	-.31919
1.199	15.939	440.30905	-.32902	-.33327	-.34388	-.34035
1.200	18.170	440.53073	-.35988	-.35630	-.37014	-.36982
1.200	19.632	440.54437	-.37493	-.37181	-.37972	-.38427
	GRADIENT	.05125	-.00299	-.00287	-.00308	-.00306

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP2014) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMDAF = 46.800 ELEVTR = .000
 BOFLAP = .000 RUCLFL = 10.000

REFERENCE DATA

SREF = 171.4720 82.IN. YMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.5597 INCHES ZMRP = .0000 INCHES
 SCALE = .0186 SCALE

RUN NO. 25/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	CL	CD	L/D
.349	-2.030	-.00354	-.07048	.03472	-.00017	-.00452	.00284	-.00652	-.06921	.03720	-1.86046
.349	.064	.00079	.03080	.03717	-.00066	-.00448	.00223	-.01017	.03076	.03720	.82686
.349	2.132	.00254	.12276	.03552	-.00080	-.00424	.00168	-.01037	.12136	.04007	3.02880
.349	4.228	.00451	.22308	.02932	-.00049	-.00434	.00158	-.01281	.22031	.04569	4.82189
.349	6.311	.00428	.32072	.01908	-.00056	-.00468	.00140	-.01174	.31668	.05422	5.84067
.349	8.392	.00555	.42730	.00482	-.00055	-.00448	.00117	-.01263	.42202	.06713	6.28645
.349	10.496	.00834	.54373	-.00776	-.00316	-.00552	.00002	-.01204	.53605	.09142	5.86346
.349	12.566	.00792	.62890	.00058	-.00367	-.00567	.00040	-.01308	.61371	.13739	4.46696
.349	14.606	.00780	.69297	.00989	-.00386	-.00610	.00146	-.01728	.68807	.18434	3.82409
.349	16.654	.00922	.74991	.01782	-.00488	-.00510	.00200	-.02168	.71334	.23199	3.07493
.349	20.724	.01060	.82851	.03670	-.00703	-.00300	.00202	-.02419	.76192	.32750	2.32644
.349	GRADIENT	.00124	.04667	-.00086	-.00005	.00004	-.00021	-.00092	.04602	.00136	1.06749

RUN NO. 24/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLB	CYN	CY	CL	CD	L/D
.799	-2.098	-.00782	-.09098	.03693	.00120	-.00489	.00304	-.00645	-.08957	.04024	-2.22586
.798	.078	-.00018	.02373	.03952	.00005	-.00471	.00249	-.00995	.02368	.03956	.59859
.799	2.241	.00404	.13464	.03738	-.00077	-.00468	.00210	-.01154	.13328	.04282	3.12672
.799	4.441	.00670	.25813	.03379	-.00196	-.00467	.00193	-.01288	.25474	.05367	4.74634
.798	6.600	.00780	.36580	.03332	-.00211	-.00407	.00201	-.01407	.35955	.07514	4.78497
.799	8.791	.00895	.45343	.03696	-.00228	-.00468	.00202	-.01502	.44252	.10552	4.19391
.799	10.871	.00950	.53869	.04092	-.00326	-.00412	.00213	-.01592	.52131	.14178	3.67683
.799	12.959	.01185	.60168	.04725	-.00376	-.00417	.00221	-.01810	.57576	.18097	3.18150
.798	15.073	.01450	.66014	.05316	-.00341	-.00424	.00235	-.02082	.62360	.22300	2.79643
.799	17.128	.01299	.70264	.05977	-.00212	-.00451	.00259	-.02075	.65387	.26405	2.47628
.798	19.197	.01713	.73516	.06622	-.00062	-.00465	.00154	-.01989	.67251	.30427	2.21020
.798	21.266	.02185	.77793	.07245	-.00061	-.00404	.00035	-.01906	.69868	.34966	1.99815
.798	GRADIENT	.00219	.05319	-.00053	-.00047	.00003	-.00017	-.00096	.05246	.00199	1.07605

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM2VFB)

(RP5014) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
LAPDAF = 46.800 ELEVTR = .000
BDFAP = .000 RUOFLR = 10.000

PARAMETRIC DATA

RUN NO. 23/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.141	-.00886	-.10238	.04439	.00078	-.00451	.00342	-.00801	-.10065	.04819	-2.08881
.899	.073	-.00228	.02200	.01632	-.00114	-.00334	.00296	-.01048	.02194	.04635	.47333
.899	2.265	.00439	.13749	.04598	-.00241	-.00208	.00298	-.01496	.13557	.05138	2.613
.898	4.500	.00679	.25757	.04371	-.00129	-.00326	.00257	-.01491	.25335	.06378	3.9110
.900	6.733	.00905	.36979	.04578	-.00164	-.00399	.00235	-.01555	.36192	.08863	4.09337
.900	8.877	.01128	.48321	.04728	-.00520	-.00520	.00174	-.01457	.47013	.12128	3.87636
.899	11.010	.01212	.56673	.05336	-.00815	-.00594	.00157	-.01449	.54611	.16062	3.40005
.899	13.123	.01422	.63869	.05923	-.01131	-.00398	.00322	-.02109	.60856	.20269	3.00246
.899	15.264	.01571	.72683	.06697	-.01437	-.00394	.00330	-.02355	.68365	.25598	2.67075
.899	17.368	.01711	.78362	.07414	-.01404	-.00499	.00269	-.02700	.72576	.30467	2.38209
.900	19.455	.02303	.82963	.08181	-.01379	-.00290	.00269	-.02700	.75501	.35346	2.13605
.899	21.547	.02382	.87624	.08845	-.01404	-.00390	.00114	-.02149	.78252	.40408	1.93654
GRADIENT		.00242	.05405	-.00011	-.00034	.00023	-.00011	-.00114	.05316	.00235	.91977

RUN NO. 22/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.179	-.01358	-.13201	.08115	.00911	-.00526	.00441	-.00961	-.12883	.08611	-1.49621
.980	.059	-.00687	.01309	.08235	.00046	-.00491	.00422	-.01292	.01300	.08236	.15785
.981	2.287	-.00026	.15830	.08092	-.00820	-.00496	.00423	-.01701	.15495	.08717	1.77750
.981	4.541	.00232	.32577	.07904	-.01964	-.00468	.00427	-.01872	.31849	.10458	3.04531
.980	6.795	.00432	.48527	.07772	-.03019	-.00324	.00425	-.01988	.47267	.13459	3.51198
.981	9.018	.00526	.62186	.07827	-.03712	-.00472	.00440	-.02108	.60190	.17477	3.44393
.981	11.205	.00885	.73878	.07903	-.04225	-.00469	.00452	-.02381	.70953	.22010	3.22571
.979	13.405	.01327	.85977	.07931	-.04773	-.00473	.00507	-.02884	.81819	.27550	2.96982
.981	15.617	.01910	.98346	.08141	-.05428	-.00502	.00463	-.02829	.92551	.34220	2.70458
.981	17.781	.02135	1.06784	.08485	-.05340	-.00462	.00499	-.03225	.99092	.40690	2.43526
.980	19.912	.02107	1.12502	.08897	-.05049	-.00332	.00499	-.03383	1.02712	.46776	2.19584
.981	22.048	.01255	1.18716	.09333	-.05013	-.00395	.00370	-.03133	1.06531	.53214	2.00192
GRADIENT		.00242	.06783	-.00035	-.00424	.00008	-.00002	-.00140	.06629	.00269	.68082

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5014) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BM2VFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.5597 INCHES ZMRP = .0003 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAYDAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUDFLR = 10.000

PARAMETRIC DATA

RUP' 21/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.123	-.01098	-.10091	.09458	.00979	-.00388	.00289	-.00590	-.09734	.09825	-.99077
1.200	.099	-.00264	.03008	.09707	.00013	-.00345	.00262	-.00922	.02991	.09712	.30802
1.200	2.332	.00219	.16138	.09831	-.00944	-.00332	.00278	-.01245	.15725	.10479	1.90052
1.200	4.363	.00510	.30389	.09800	-.01967	-.00292	.00276	-.01391	.29513	.12187	2.42166
1.200	6.801	.00688	.44109	.09675	-.02920	-.00289	.00282	-.01511	.42653	.14830	2.87612
1.200	9.041	.00803	.57066	.09435	-.03757	-.00227	.00305	-.01668	.54874	.18283	3.00134
1.200	11.256	.01029	.69380	.09184	-.04420	-.00268	.00323	-.01866	.68253	.22590	2.93803
1.200	13.476	.01293	.80729	.08674	-.04905	-.00368	.00353	-.02136	.76485	.27247	2.80708
1.200	15.696	.01581	.91271	.08447	-.05128	-.00556	.00384	-.02430	.85582	.32825	2.60726
1.200	17.895	.01977	.99748	.08709	-.05025	-.00403	.00363	-.02575	.92246	.38938	2.36904
1.200	20.078	.01950	1.07565	.08629	-.04943	-.00387	.00421	-.02811	.98065	.45031	2.17772
1.200	21.488	.01903	1.13312	.08691	-.04948	-.00396	.00475	-.03012	1.02253	.49594	2.06179
1.200	GRADIENT	.00238	.06035	.00052	-.00439	.00013	-.00001	-.00122	.05852	.00352	.51258

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BW2VFB)

(RPSF14) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LWDAF = 46.800 ELEVTR = .000
BDFLAP = .000 RUDEFLR = 10.000

RUN NO. 25/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.030	165.79033	-.08720	-.29654	-.22941	-.17412
.349	.064	166.35221	-.09125	-.28119	-.20074	-.17786
.349	2.132	166.35221	-.09462	-.27593	-.19930	-.17498
.349	4.228	165.97780	-.09676	-.27222	-.19926	-.16719
.349	6.311	166.07164	-.10347	-.28789	-.23578	-.15795
.349	8.392	166.07164	-.11601	-.31331	-.25746	-.17190
.349	10.496	165.97780	-.11753	-.33171	-.25086	-.19270
.349	12.566	165.97780	-.12815	-.34274	-.27256	-.21387
.349	14.608	165.97780	-.13829	-.35330	-.27497	-.24660
.349	16.654	166.07140	-.16331	-.37516	-.27626	-.29120
.349	20.724	165.79057	-.26221	-.50642	-.46307	-.34758
GRADIENT		.02689	-.00154	.00375	.00441	.00114

RUN NO. 24/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.799	-2.098	310.95347	-.10382	-.24962	-.17210	-.20700
.798	.078	310.61142	-.10882	-.23706	-.16119	-.19872
.799	2.241	310.88007	-.10642	-.23380	-.15823	-.19343
.799	4.441	310.88007	-.11209	-.22535	-.15694	-.18084
.798	6.600	310.25669	-.12494	-.23577	-.17090	-.17782
.799	8.751	311.22191	-.13002	-.25515	-.19203	-.19016
.799	10.871	310.95972	-.15537	-.26626	-.19757	-.22087
.799	12.959	311.15482	-.20011	-.31857	-.24377	-.26825
.798	15.073	310.74577	-.26379	-.40839	-.34271	-.33336
.799	17.128	310.88007	-.34181	-.46687	-.46409	-.38051
.798	19.197	310.74577	-.40901	-.56931	-.57374	-.44673
.798	21.266	310.74577	-.47014	-.63900	-.62603	-.47655
GRADIENT		.00222	-.00103	.00349	.00222	.00385



DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644 (RPSP14) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

REFERENCE DATA
SREF = 171.4720 SQ. IN.
LREF = 25.5100 INCHES
BREF = 20.3597 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA
BETA = .000 WINGNO = 2.000
LAMDAF = 46.800 ELEVTR = .000
BCFLAP = .000 RUCFLR = 10.000

RUN NO. 23/ 0 RNVL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.141	354.78517	-.09905	-.24072	-.16453	-.19870
.899	.073	354.90009	-.10150	-.22292	-.15049	-.18313
.899	2.265	355.09192	-.09039	-.20890	-.13689	-.16659
.898	4.500	354.57016	-.10770	-.20269	-.14341	-.15827
.900	6.703	355.19267	-.12128	-.21400	-.15510	-.15889
.900	8.877	355.19267	-.13347	-.27071	-.23600	-.17599
.899	11.010	354.91336	-.19093	-.32589	-.29030	-.24455
.899	13.123	355.22701	-.26500	-.39107	-.38829	-.29404
.899	15.264	355.07371	-.34276	-.47016	-.47433	-.37676
.899	17.368	354.83564	-.44147	-.56383	-.59397	-.46546
.900	19.455	355.29331	-.52618	-.69308	-.68422	-.56358
.899	21.547	355.06460	-.59695	-.75969	-.75025	-.58666
GRADIENT		-.02073	-.00068	.00579	.00347	.00632

RUN NO. 22/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.979	-2.179	384.95707	-.26196	-.33082	-.28651	-.30137
.980	.059	385.37039	-.26424	-.31772	-.28046	-.29614
.981	2.287	385.46212	-.26279	-.31151	-.27858	-.29779
.981	4.541	385.46212	-.27326	-.29973	-.28377	-.30380
.980	6.795	385.37039	-.29648	-.30718	-.29603	-.31935
.981	9.018	385.31326	-.33939	-.34196	-.33369	-.35757
.981	11.205	385.47760	-.36784	-.37063	-.36293	-.38839
.979	13.405	384.98663	-.39509	-.40391	-.39783	-.41455
.981	15.617	385.49278	-.44557	-.44723	-.45238	-.46110
.981	17.781	385.80067	-.52670	-.55962	-.53464	-.52684
.980	19.912	385.44660	-.58131	-.59468	-.58627	-.59101
.981	22.048	385.49247	-.63117	-.64277	-.63295	-.64071
GRADIENT		.07172	-.00172	.00444	.00745	-.00540

DATE 07 JUL 75 TABULATED SOURCE DATA-LARC 644

(RP5P14) (19 MAY 75)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B&WFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 171.4720 SQ.IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.3597 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LAMCAF = 46.800 ELEVTR = .000
 BDFLAP = .000 RUFLR = 10.000

RUN NO. 21/ 0 RN/L = 2.11 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	Q (PSF)	CPB1	CPB2	CFC1	CFC2
1.200	-2.123	440.56569	-28618	-39833	-37058	-30952
1.200	.099	440.51531	-30384	-36455	-32917	-31461
1.200	2.332	440.51531	-31676	-37142	-33499	-33111
1.200	4.565	440.61608	-32728	-38746	-34767	-34468
1.200	6.801	440.51531	-34423	-41932	-36279	-35904
1.200	9.041	440.49398	-36003	-43718	-37601	-36898
1.200	11.256	440.57343	-36778	-42824	-38248	-37235
1.200	13.476	440.63738	-37498	-42002	-39384	-38188
1.200	15.696	440.55793	-38615	-41577	-40355	-39520
1.200	17.895	440.57343	-42344	-45878	-43661	-43762
1.200	20.078	440.48624	-45892	-49494	-46732	-47063
1.200	21.488	440.62382	-47908	-52435	-48890	-49471
1.200	GRADIENT	.00680	-50611	.00115	.00281	-.00547

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644
LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNCVFB)

(RP5015) (19 MAY 73)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
LANCAF = 75.000 ELEVTR = .000
BOFLAP = .000 RUOFLR = 10.000

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8533 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.3597 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

RUN NO. 10/ 0 RV/L = 2.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.350	-1.939	.00255	-.06563	.03605	-.00086	-.00441	.00261	-.00701	-.06437	.03825	-1.68281
.350	-.023	.00037	.01928	.03779	.00013	-.00420	.00194	-.00839	.01930	.03779	.51072
.349	2.190	.00459	.12351	.03613	.00180	-.00433	.00137	-.01202	.12204	.04082	2.98960
.349	4.269	.00560	.22190	.02979	.00379	-.00422	.00132	-.01330	.21906	.04623	4.75898
.347	6.234	.00603	.31843	.02080	.00329	-.00465	.00124	-.01364	.31429	.05326	5.68782
.348	8.301	.00616	.42641	.00851	.00697	-.00454	.00097	-.01274	.42071	.06998	6.01165
.348	10.529	.00932	.55608	.00151	.00660	-.00558	.00051	-.01552	.54644	.10310	5.30020
.348	12.671	.00762	.65630	.01235	.00393	-.00377	.00187	-.01864	.63761	.15600	4.08712
.348	14.739	.00938	.75630	.01141	.01017	-.00423	.00184	-.02121	.72851	.20345	3.58076
.347	16.832	.01246	.90626	.00384	.00942	-.00464	.00165	-.02518	.86632	.26610	3.25561
.347	18.970	.01338	1.02881	-.00272	.01485	-.01243	-.00070	-.01729	.97382	.33188	2.93428
.347	20.987	.00881	1.04294	.00369	.02323	-.01737	-.00762	-.01089	.97243	.37698	2.57953
GRADIENT		.00138	.04642	-.00099	.00075	.00002	-.00021	-.00108	.04575	.00131	1.04295

RUN NO. 9/ 0 RV/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.107	.00774	-.09337	.03754	.00037	-.00520	.00296	-.00619	-.09193	.04095	-2.24514
.801	.091	.00053	.02273	.04007	.00088	-.00477	.00226	-.00955	.02267	.04010	.56524
.801	2.253	.00654	.13321	.03763	.00177	-.00472	.00176	-.01206	.13163	.04284	3.07264
.799	4.468	.00797	.26032	.03383	.00234	-.00445	.00172	-.01300	.25689	.05401	4.75642
.799	6.970	.00914	.38670	.03591	.00410	-.00397	.00180	-.01421	.37948	.08237	4.59632
.799	8.787	.00949	.47320	.03803	.00398	-.00394	.00210	-.01572	.46184	.10987	4.20330
.798	10.986	.01070	.58363	.03917	.00491	-.00452	.00246	-.01820	.56547	.14968	3.77797
.798	13.161	.01567	.71588	.04040	.00373	-.00476	.00211	-.02067	.68788	.20233	3.39980
.798	15.412	.02166	.86418	.03847	.00276	-.00402	.00210	-.02542	.82288	.26675	3.08484
.798	17.649	.02396	.96839	.03983	.00665	-.00560	.00159	-.02538	.91073	.33156	2.74682
.798	19.723	.02240	1.00362	.04473	.01727	-.00787	.00210	-.02643	.92965	.38080	2.44132
.798	21.765	.02918	1.00064	.05395	.02577	-.00299	.00223	-.03259	.90931	.42114	2.15917
GRADIENT		.00243	.05353	-.00062	.00031	.00011	-.00019	-.00105	.05280	.00192	1.07393

LARC 8-FT TPT 244 LO-100 ORBITER (SHIPS) (BM2VFB) (RP5015) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 23.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3597 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 75.000 ELEVTR = .000
 BDPLAP = .000 RUFLR = 10.000

RUN NO. 8/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.182	-.00781	-.10708	.04445	.00049	-.00491	.00319	-.00779	-.10531	.04850	-2.17149
.902	.121	-.00921	.02228	.04712	.00010	-.00326	.00280	-.01121	.02218	.04716	.47037
.899	2.261	.00506	.13613	.04534	.00054	-.00277	.00269	-.01424	.13424	.05068	2.64886
.900	4.471	.00967	.24992	.04482	.00405	-.00457	.00225	-.01553	.24567	.06417	3.82861
.899	6.877	.01178	.38629	.04534	.00445	-.00485	.00190	-.01553	.37808	.09126	4.14269
.899	8.383	.01172	.50027	.04748	.00445	-.00572	.00203	-.01605	.48693	.12416	3.92169
.899	11.064	.01210	.59435	.05283	.00446	-.00478	.00313	-.02082	.57317	.16591	3.45467
.901	13.307	.01615	.72173	.05766	-.00303	-.00413	.00302	-.02318	.68908	.22223	3.10073
.900	14.418	.01944	.78560	.05801	-.00390	-.00440	.00270	-.02414	.74641	.25180	2.96436
.900	15.583	.02018	.86683	.05900	-.00418	-.00531	.00316	-.02661	.81911	.28970	2.82730
.900	17.897	.02425	.99408	.06089	-.00258	-.00574	.00240	-.02649	.92727	.36343	2.55144
.898	19.913	.02541	1.04033	.06473	.00681	-.00598	.00278	-.02911	.95608	.41519	2.30274
.898	22.048	.02597	1.06383	.07327	.01657	-.00374	.00331	-.03189	.95853	.46726	2.05136
GRADIENT		.00261	.05363	-.00002	.00050	.00007	-.00013	-.00118	.05275	.00227	.91406

RUN NO. 7/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.191	-.01322	-.13433	.07814	.00811	-.00502	.00456	-.01048	-.13125	.08322	-1.57715
.982	.029	-.00425	.01078	.07987	.00109	-.00472	.00388	.01316	.01074	.07988	.13441
.981	2.333	.00208	.15597	.07646	-.00526	-.00488	.00399	-.01742	.15273	.08274	1.84580
.979	4.567	.00418	.32671	.07482	-.01454	-.00480	.00401	-.01882	.31777	.10060	3.17425
.979	6.807	.00545	.48311	.07585	-.02318	-.00362	.00405	-.01977	.47074	.12428	3.55601
.979	9.053	.00609	.62562	.07700	-.02847	-.00558	.00446	-.02185	.60571	.17448	3.47157
.981	11.199	.00759	.76970	.07893	-.03610	-.00523	.00477	-.02403	.73972	.22691	3.25996
.983	13.527	.01212	.92654	.08276	-.04404	-.00465	.00494	-.02757	.88148	.29719	2.96599
.980	15.742	.01546	1.03935	.07975	-.04334	-.00742	.00498	-.02995	.97873	.35875	2.72815
.982	17.994	.02177	1.15317	.08166	-.04278	-.00374	.00483	-.03347	1.07155	.43389	2.46962
.980	20.296	.02494	1.27306	.07997	-.04293	-.00411	.00458	-.03472	1.16628	.51659	2.25766
GRADIENT		.00259	.06768	-.00059	-.00329	.00102	-.00007	-.00130	.06620	.00244	.70769

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMCVFB) (RP5015) (19 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SPF = 171.4720 SQ. IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.3997 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 2.000
 LANDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = 10.000

RUN NO. 6/ 0 RVAL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
1.200	-2.076	-.00798	-.10276	.09131	.00983	-.00431	.00246	-.00575	-.09936	.09317	-1.04422
1.200	.130	-.00135	.02852	.09417	.00207	-.00427	.00241	-.00905	.02830	.09424	.30035
1.201	2.335	.00344	.15756	.09475	-.00529	-.00367	.00258	-.01229	.15357	.10109	1.51919
1.201	4.617	.00592	.30103	.09419	-.01332	-.00305	.00267	-.01400	.29247	.11812	2.47605
1.200	6.830	.00711	.43634	.09233	-.02013	-.00311	.00281	-.01522	.42227	.14357	2.94126
1.199	9.063	.00822	.57359	.09035	-.02624	-.00310	.00308	-.01692	.55220	.17957	3.07506
1.199	11.326	.01072	.70683	.08881	-.03111	-.00335	.00326	-.01903	.67563	.22589	2.99089
1.200	13.693	.01568	.84640	.08716	-.03606	-.00342	.00316	-.02140	.80171	.28505	2.81251
1.200	15.942	.01978	.96488	.08383	-.03986	-.00415	.00345	-.02489	.90535	.34403	2.63158
1.198	18.066	.02338	1.08009	.08309	-.04181	-.00458	.00356	-.02749	1.00108	.41395	2.41837
1.199	19.336	.02570	1.13291	.08326	-.04053	-.00310	.00346	-.02851	1.04144	.45368	2.29552
	GRADIENT	.00208	.06016	.00038	-.00345	.00020	.00004	-.00125	.05838	.00341	.52826

DATE 27 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BA2VFB)

(RP5P15) (19 MAY 73)

REFERENCE DATA

SREF = 171.4720 SQ. IN.
 LREF = 25.3100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 75.000 ELEVTR = .000
 BCFLAP = .000 RUCFLR = 10.000

RUN NO. 10/ 0 RNVL = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.350	-1.939	166.72538	-.08024	-.22989	-.15279	-.17817
.350	-.023	166.53774	-.08417	-.22059	-.14623	-.17884
.349	2.190	166.25673	-.08624	-.22191	-.15129	-.17049
.349	4.269	165.78870	-.08599	-.24077	-.17198	-.14687
.347	6.234	164.66505	-.08947	-.24916	-.19695	-.13379
.348	8.301	165.13422	-.09166	-.24653	-.19979	-.14164
.348	10.529	164.94647	-.09564	-.23088	-.16799	-.16552
.348	12.671	165.04058	-.11113	-.23461	-.16644	-.19495
.348	14.739	165.04058	-.12182	-.25873	-.18778	-.22254
.347	16.832	164.75939	-.12348	-.30120	-.21093	-.25394
.347	18.970	164.57207	-.17086	-.39538	-.25153	-.27656
.347	20.987	164.66597	-.23988	-.45704	-.31360	-.32782
GRADIENT		-.14867	-.02092	-.00167	-.00305	-.00494

RUN NO. 9/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.793	-2.107	311.15654	-.09924	-.19336	-.13572	-.19156
.801	.091	312.42411	-.10149	-.18706	-.13346	-.18525
.799	2.253	312.14997	-.09874	-.18848	-.13228	-.17516
.799	4.468	311.41254	-.10021	-.18862	-.13357	-.16552
.799	6.970	311.48590	-.11177	-.19293	-.14408	-.16728
.799	8.787	311.48590	-.12412	-.19778	-.15282	-.17805
.798	10.986	310.87537	-.14753	-.21094	-.17187	-.20174
.798	13.161	310.87537	-.17021	-.23808	-.19942	-.23257
.798	15.412	310.94255	-.18101	-.27695	-.22769	-.27106
.798	17.649	310.94255	-.22895	-.34760	-.28690	-.33092
.798	19.723	310.94255	-.32201	-.42620	-.36952	-.40285
.798	21.765	310.94255	-.42151	-.53885	-.48535	-.46835
GRADIENT		.02241	-.00001	-.00059	-.00035	-.00403

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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(RP5P15) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BACVFB)

REFERENCE DATA

SREF = 171.4720 SQ. IN.
 LREF = 25.3100 INCHES
 BREF = 20.3597 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LANDAF = 75.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = 10.000

RUN NO.	Q / D	RN/L = 1.99	GRADIENT INTERVAL = -5.00/ 5.00	CFB1	CFB2	CPC1	CPC2
MACH	ALPHA	Q (PSF)					
.899	-2.182	355.29283		-.09497	-.17983	-.12759	-.18000
.902	.121	356.23366		-.09133	-.16794	-.12124	-.16613
.899	2.261	355.12831		-.08372	-.16557	-.11657	-.15025
.900	4.471	355.75947		-.08854	-.16394	-.11752	-.13943
.899	6.877	355.02740		-.10745	-.17481	-.13444	-.14669
.899	8.883	355.10512		-.13181	-.19069	-.15300	-.16690
.899	11.064	355.10512		-.17830	-.23462	-.19775	-.20986
.901	13.307	355.87827		-.24098	-.28379	-.25467	-.26331
.900	14.418	355.80973		-.26401	-.30620	-.27744	-.28331
.900	15.583	355.49434		-.29693	-.33491	-.30695	-.31097
.900	17.897	355.81887		-.36604	-.42366	-.37326	-.37243
.898	19.913	354.66980		-.45807	-.50766	-.46653	-.47002
.898	22.048	354.99504		-.54638	-.62510	-.58808	-.57354
	GRADIENT	.01286		.00122	.00228	.00162	.00327

RUN NO.	7 / 0	RN/L = 2.04	GRADIENT INTERVAL = -5.00/ 5.00	CFB1	CFB2	CPC1	CPC2
MACH	ALPHA	Q (PSF)					
.980	-2.191	385.24787		-.24144	-.29780	-.25989	-.28894
.982	.029	385.98319		-.25424	-.29391	-.26433	-.29084
.981	2.333	385.55704		-.27718	-.28529	-.25647	-.28364
.979	4.567	384.89553		-.29980	-.28259	-.26409	-.28939
.979	6.807	384.83420		-.29475	-.30550	-.29316	-.31450
.979	9.053	384.88021		-.34011	-.34500	-.33413	-.35314
.981	11.199	385.81278		-.37841	-.37805	-.36738	-.38347
.983	13.527	386.39474		-.43477	-.43114	-.41601	-.45141
.980	15.742	385.67521		-.45410	-.44620	-.44711	-.46612
.982	17.994	386.16630		-.50226	-.49240	-.48630	-.52372
.980	20.296	385.41572		-.51286	-.51075	-.50578	-.54676
	GRADIENT	-.06610		-.00211	.00241	-.00020	.00040

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5P15) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B42VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 2.000
 LAMCAF = 75.000 ELEVTR = .000
 BOFLAP = .000 RUFLR = 10.000

REFERENCE DATA

SREF = 171.4720 SQ.IN XGRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YGRP = .0000 INCHES
 BREF = 20.3597 INCHES ZGRP = .0000 INCHES
 SCALE = .0188 SCALE

RUN NO. 6/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.076	440.69553	-28365	-32695	-31600	-29807
1.200	.130	440.68776	-29830	-32813	-31355	-30396
1.201	2.335	440.70905	-30506	-35147	-32304	-32484
1.201	4.617	440.65868	-32072	-38003	-33867	-33700
1.200	6.830	440.63738	-33378	-39729	-34953	-34386
1.199	9.063	440.42379	-34905	-38976	-36079	-35074
1.199	11.326	440.44520	-35764	-38871	-36810	-35893
1.200	13.693	440.53073	-37125	-39572	-38423	-37359
1.200	15.842	440.50936	-37940	-39821	-39164	-38280
1.198	18.005	440.35733	-39798	-42950	-40911	-42199
1.199	19.336	440.59003	-41357	-44407	-42940	-44151
	GRADIENT	-0.00405	-0.00530	-0.00821	-0.00349	-0.00618

REFERENCE DATA
 SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0100 SCALE

PARAMETRIC DATA
 BETA = .000 WINGNO = 3.000
 LAMDAF = 35.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 55/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
.349	-1.928	-.00019	-.03993	.02111	-.00472	.00013	.00124	-.00469	-.03920	.02244	-1.74717
.349	.138	.00292	.05800	.02306	-.00415	.00046	.00079	-.00738	.05794	.02319	2.49799
.348	2.225	.00647	.15520	.01862	-.00287	.00071	.00031	-.01119	.15445	.02463	6.27079
.348	4.164	.00778	.25906	.01417	-.00282	.00068	.00037	-.01245	.25734	.03295	7.81115
.348	6.356	.00849	.37664	.00243	-.00203	.00104	.00033	-.01336	.37406	.04411	8.48006
.348	8.433	.01013	.49979	-.01284	-.00167	.00172	.00012	-.01484	.49623	.06085	8.15456
.343	10.529	.00854	.61635	-.02297	-.00226	.00235	.00046	-.01827	.61017	.09005	6.77584
.347	12.653	.01123	.69287	-.00330	-.00802	.00091	.00043	-.01796	.67677	.14855	4.55584
.347	14.325	.01195	.74299	.01046	-.00955	.00072	.00039	-.01985	.73012	.24339	3.64737
.347	16.643	.01241	.76924	.02438	-.01099	.00049	.00039	-.01985	.67077	.27333	2.99978
.347	18.505	.03154	.72284	.04630	-.01060	.01690	.00414	-.06405	.59750	.28829	2.45409
.347	20.574	.02031	.66071	.05992	-.00630	.00656	.00260	-.04137	.04840	.00160	1.59791
GRADIENT		.00135	.04880	-.00123	.00034	.00009	-.00014	-.00030			

RUN NO. 54/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEB	CYN	CY	CL	CD	L/D
.798	-2.144	-.00225	-.05222	.02063	-.00741	.00039	.00169	-.00535	-.05141	.02257	-2.27792
.800	.100	.00542	.06534	.02283	-.00642	.00052	.00128	-.00935	.06530	.02295	2.84562
.800	2.356	.01151	.19622	.02062	-.00954	.00082	.00093	-.01245	.19520	.02867	6.80081
.798	4.616	.01625	.34037	.01642	-.00557	.00088	.00027	-.01329	.33795	.04376	7.72225
.798	6.746	.01893	.45909	.01846	-.00755	.00110	.00005	-.01401	.45374	.07226	6.27905
.798	8.794	.01731	.53940	.02401	-.00955	.00082	.00035	-.01454	.52939	.10620	4.98502
.799	11.065	.01341	.58202	.03558	-.01129	.00081	.00020	-.01100	.56437	.14663	3.84907
.798	12.999	.01432	.62281	.04668	-.01302	.00145	.00031	-.01226	.59635	.18557	3.21356
.798	15.054	.01998	.67516	.05432	-.01286	.00048	.00020	-.01630	.63788	.22781	2.80008
.798	17.058	.02374	.72158	.05929	-.01137	.00063	.00050	-.01645	.67245	.26835	2.50590
.798	19.090	.04766	.71915	.07069	-.00836	.01452	.01147	-.08538	.65648	.30200	2.17375
.797	21.233	.04585	.76502	.07298	-.00642	.01177	.00955	-.07655	.68666	.34508	1.98985
GRADIENT		.00273	.05807	-.00066	.00028	.00008	-.00020	-.00119	.05760	.00308	1.50645

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B43VFB)

(RP5016) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XREF = 16.8633 INCHES
 LREF = 23.5100 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0180 SCALE

BETA = .000 WINGNO = 3.000
 LANDAF = 35.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

PARAMETRIC DATA

RUN NO. 53/0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.205	-.00420	-.06885	.02960	-.00936	.00074	.00171	-.00439	-.06756	.03223	-2.09933
.899	.135	.00655	.06113	.02974	-.00916	.00071	.00068	-.00711	.06105	.02989	2.04317
.899	2.301	.01314	.20480	.02904	-.01042	.00107	.00047	-.01053	.20347	.03724	5.46404
.897	4.604	.01777	.34218	.03000	-.01006	-.00105	.00139	-.01746	.33866	.05737	5.90349
.898	6.840	.01927	.43436	.03407	-.00749	-.00115	.00031	-.01399	.42721	.08556	4.99327
.896	9.096	.01653	.54130	.04028	-.01350	-.00135	-.00039	-.00936	.52813	.12534	4.21345
.896	11.224	.01833	.62789	.05175	-.02010	-.00063	.00234	-.01240	.60580	.17298	3.50222
.896	13.230	.00843	.68333	.06294	-.02255	-.00498	.00198	-.00332	.65079	.21766	2.98992
.898	15.297	.01704	.75522	.07048	-.02535	-.00049	.00198	-.01852	.70987	.26723	2.65645
.897	17.311	.02748	.81218	.07328	-.02502	.00049	.00008	-.00372	.75350	.31163	2.41821
.896	19.378	.04164	.82170	.08165	-.02170	.01365	.00315	-.06695	.74806	.34966	2.13936
.894	21.622	.04035	.87717	.08290	-.02093	.00899	.00923	-.06695	.78491	.40028	1.96088
		.05321	.06091	.00002	-.00115	-.00022	-.00005	-.00189	.06023	.00366	1.21378

GRADIENT

RUN NO. 52/0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.160	-.00713	-.11508	.07393	.00429	-.00020	.00195	-.00382	-.11221	.07821	-1.43466
.980	.065	.00249	.03371	.07739	-.00180	.00013	.00161	-.00819	.03362	.07743	.43419
.980	2.548	.01090	.21156	.07854	-.00083	.00094	.00122	-.01162	.20785	.08787	2.36544
.980	4.611	.01597	.36865	.07927	-.01960	.00126	.00098	-.01371	.36108	.10865	3.32343
.981	6.867	.01786	.53855	.08380	-.02069	.00119	.00126	-.01606	.52467	.14759	3.55479
.981	9.077	.02264	.69323	.08360	-.04060	.00184	.00074	-.01686	.67136	.19191	3.49823
.977	11.377	.03006	.83395	.08226	-.04885	.00505	-.00011	-.01806	.80141	.24473	3.27389
.981	13.548	.03371	.96785	.08266	-.05941	.00089	.00028	-.02197	.92071	.31060	2.96434
.979	15.730	.03398	1.07856	.08313	-.06460	.00388	.00133	-.02680	1.01414	.37759	2.68583
.981	17.764	.03292	1.14932	.09169	-.06598	-.00061	.00120	-.02580	1.06686	.43702	2.44125
.980	20.019	.02869	1.21358	.09684	-.06633	-.00220	.00118	-.02329	1.10710	.50644	2.18603
		.00341	.07143	.00075	-.00354	.00023	-.00015	-.00145	.06990	.00443	.71285

GRADIENT

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BKG0VFB)

(RP5016) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0168 SCALE

BETA = .000 WINGNO = 3.000
 LANDAF = 35.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 51/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.084	-.00548	-.08303	.08217	.00196	.00077	.00172	-.00430	-.07999	.08514	-.93951
1.201	.051	.00356	.04241	.08456	-.00586	.00093	.00154	-.00827	.04233	.08460	.50039
1.201	2.393	.01113	.19571	.08608	-.01587	.00135	.00136	-.01154	.19194	.09418	2.03804
1.201	4.573	.01499	.34102	.08674	-.02511	.00166	.00121	-.01293	.33302	.11365	2.93016
1.200	6.885	.01853	.48580	.08719	-.03379	.00160	.00102	-.01408	.47185	.14480	3.25871
1.196	9.123	.02170	.62163	.08724	-.04154	.00137	.00119	-.01624	.59993	.16470	3.24813
1.200	11.412	.02409	.75246	.08652	-.04808	.00127	.00138	-.01866	.72047	.23369	3.08297
1.200	13.670	.02969	.87291	.08535	-.05269	.00344	.00130	-.02149	.82801	.28923	2.86282
1.202	15.806	.03360	.98503	.08473	-.05657	.00211	.00132	-.02388	.92470	.34983	2.64332
1.200	18.043	.03554	1.08149	.08566	-.05824	.00491	.00184	-.02734	1.00177	.41641	2.40573
1.200	19.197	.03724	1.12327	.08626	-.05829	.00274	.00168	-.02775	1.03244	.45082	2.29013
		.00309	.06390	.00068	-.00409	.00014	-.00008	-.00131	.06225	.00427	.58952

GRADIENT

LARC 8-FT TFI 644 LO-100 ORBITER (SHIPS) (BMSVFB) (RP5P16) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN.
 LREF = 25.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 35.000 ELEVTR = .000
 BDFLAP = .000 RUDELFL = .000

RUN NO. 55/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-1.928	166.25838	-.02574	-.06152	-.06342	-.03765
.349	.138	166.25885	-.02767	-.05864	-.08054	-.03429
.348	2.225	165.69695	-.03114	-.05787	-.06920	-.03536
.348	4.164	165.69718	-.03452	-.06075	-.06244	-.03970
.348	6.356	165.22926	-.03170	-.06477	-.07811	-.03738
.348	8.463	165.32266	-.03168	-.07292	-.09453	-.03398
.348	10.529	164.94795	-.04050	-.08901	-.10493	-.04809
.347	12.653	164.76124	-.06049	-.12100	-.12642	-.07142
.347	14.525	164.47956	-.08788	-.18428	-.16946	-.09776
.347	16.643	164.57345	-.13459	-.24401	-.25886	-.16128
.347	18.505	164.66735	-.31609	-.41116	-.41816	-.29362
.347	20.574	164.57345	-.39031	-.50379	-.52540	-.36125
GRADIENT		-.11070	-.00146	.00016	.00365	-.00034

RUN NO. 54/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.144	310.32391	-.01980	-.02789	-.02774	-.02384
.800	.100	311.62424	-.02005	-.02530	-.02102	-.02228
.798	2.356	311.61795	-.02186	-.02657	-.02154	-.02408
.798	4.616	310.54423	-.02418	-.02865	-.02489	-.02640
.798	6.746	310.54423	-.03167	-.03634	-.03211	-.03464
.798	8.794	310.54423	-.04354	-.05762	-.05969	-.04544
.799	11.065	311.21564	-.04883	-.14068	-.14834	-.09772
.798	12.999	310.33014	-.15799	-.23030	-.23486	-.17441
.798	15.054	310.34881	-.23262	-.31084	-.31661	-.24389
.798	17.058	310.68484	-.30154	-.36408	-.37271	-.29995
.798	19.090	310.67236	-.43625	-.47429	-.47476	-.41773
.797	21.233	310.13463	-.48111	-.51846	-.52459	-.46426
GRADIENT		.02867	-.00066	-.00016	.00035	-.00042

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFB) (RPSF16) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
LREF = 25.3100 INCHES
BREF = 20.9096 INCHES
SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

BETA = .000 WINGNO = 3.000
LWDAF = 35.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

PARAMETRIC DATA

RUN NO. 53/ 0 RNVL = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.899	-2.205	354.84473	.00520	-.01494	.00098	-.01631
.899	.135	354.75793	.00237	-.01001	.00009	-.01249
.899	2.301	354.82655	.00128	-.00709	-.00148	-.00799
.897	4.604	354.05145	-.01210	-.02846	-.01364	-.02176
.898	6.840	354.59736	-.03604	-.07961	-.08586	-.05237
.896	9.096	353.48661	-.06926	-.12197	-.12983	-.08145
.896	11.224	353.82150	-.14872	-.22154	-.18265	-.15045
.896	13.230	353.82150	-.24500	-.32843	-.29576	-.26581
.898	15.297	354.41851	-.33687	-.40515	-.39374	-.36366
.897	17.311	353.93200	-.39577	-.47071	-.47412	-.38625
.896	19.378	353.57335	-.49524	-.53086	-.54817	-.47181
.894	21.622	352.91461	-.54659	-.57200	-.59365	-.52180
	GRADIENT	-.10264	-.00235	-.00167	-.00201	-.00053

RUN NO. 52/ 0 RNVL = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CPC1	CPC2
.980	-2.160	385.30893	-.17228	-.16619	-.18032	-.19199
.980	.065	385.24787	-.17041	-.16702	-.18408	-.19512
.980	2.548	385.24787	-.17416	-.17446	-.19197	-.20466
.980	4.611	385.03387	-.18520	-.19060	-.20570	-.22563
.981	6.867	386.19693	-.22892	-.22989	-.25035	-.26681
.981	9.077	385.52315	-.28030	-.26890	-.27465	-.29171
.977	11.377	384.22106	-.29296	-.31235	-.30294	-.32332
.981	13.548	385.88866	-.35578	-.36764	-.37226	-.38682
.979	15.750	384.98791	-.39511	-.42530	-.39511	-.42190
.981	17.764	385.49606	-.44766	-.44714	-.46673	-.46888
.980	20.019	385.38465	-.50935	-.50220	-.53852	-.54507
	GRADIENT	-.03556	-.00184	-.00351	-.00366	-.00481

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5P16) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BNAVFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN.
 LREF = 25.3100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 35.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 51/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.084	440.53793	-.23591	-.23826	-.23754	-.23813
1.201	.051	440.62959	-.23340	-.23089	-.23576	-.23944
1.201	2.393	440.67996	-.23558	-.23179	-.23939	-.24669
1.201	4.573	440.67996	-.24085	-.24118	-.24884	-.25557
1.200	6.885	440.45128	-.25080	-.25558	-.25750	-.26676
1.198	9.123	440.17125	-.26866	-.28037	-.26925	-.28366
1.200	11.412	440.66646	-.28583	-.29706	-.28231	-.30256
1.200	13.670	440.45717	-.30781	-.32178	-.30552	-.32900
1.200	15.806	440.57343	-.32361	-.35301	-.32294	-.34855
1.200	18.043	440.50936	-.36189	-.38507	-.36298	-.39014
1.200	19.197	440.48033	-.39034	-.40483	-.38921	-.41359
GRADIENT		.01865	-.00077	-.00044	-.00169	-.00268

PARAMETRIC DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 25.5100 INCHES YMRP = .0000 INCHES LAMDAF = 45.000 ELEVTR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDFLAP = .000 RUCFLR = .000
 SCALE = .0188 SCALE

RUN NO. 85/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-1.991	-.00066	-.04165	.01973	-.00528	.00028	.00126	-.00433	-.04094	.02117	-1.93425
.350	.090	.00240	.06134	.02180	-.00446	.00072	.00092	-.00716	.06130	.02190	2.79955
.350	2.168	.00528	.15920	.01844	-.00308	.00077	.00076	-.01052	.15839	.02445	6.47785
.349	4.410	.00674	.27383	.01061	-.00195	.00114	.00057	-.01181	.27221	.03163	8.60613
.349	6.425	.00768	.38226	-.00007	-.00110	.00125	.00068	-.01363	.37987	.04271	8.89475
.349	8.384	.00899	.49585	-.01382	-.00060	.00226	.00037	-.01421	.49257	.05863	6.40131
.349	10.607	.00942	.61944	-.01794	-.00162	.00223	.00129	-.01875	.61216	.09638	6.35123
.348	12.696	.01037	.68002	.00183	-.00528	.00220	.00089	-.01887	.67275	.15343	4.38471
.348	14.649	.01175	.73708	.01187	-.00749	.00114	.00116	-.02182	.71011	.19789	3.58858
.348	16.796	.01089	.78323	.02039	-.00852	-.00074	.00101	-.02013	.74392	.24585	3.02391
.348	18.792	.00798	.79152	.03360	-.00912	-.00270	.00065	-.01449	.73851	.28679	2.57509
.349	19.794	-.01511	.72876	.05143	-.00731	-.01894	-.00389	.03866	.66829	.29518	2.26401
GRADIENT		.00117	.04908	-.00146	.00053	.00012	-.00010	-.00121	.04872	.00161	1.65334

RUN NO. 84/ 0 RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.796	-2.097	-.00309	-.04651	.01995	-.00766	.00048	.00174	-.00493	-.04575	.02164	-2.11414
.796	.143	.00428	.06662	.02158	-.00612	.00059	.00139	-.00897	.06657	.02175	3.08044
.799	2.416	.01138	.20127	.01915	-.00501	.00088	.00119	-.01345	.20028	.02762	7.25123
.796	4.572	.01561	.33550	.01537	-.00466	.00095	.00052	-.01391	.33321	.04207	7.92086
.797	6.825	.01750	.46919	.01700	-.00685	-.00063	.00013	-.01372	.46385	.07264	6.38528
.797	8.902	.01579	.54865	.02265	-.00865	-.00029	.00065	-.01468	.53854	.10728	5.02012
.798	10.997	.01602	.60396	.03149	-.00967	.00081	.00103	-.01649	.58686	.14612	4.01644
.797	13.128	.01616	.67025	.03894	-.01034	-.00080	.00071	-.01537	.64389	.19014	3.38632
.797	14.723	.01493	.69544	.04661	-.00943	-.00296	-.00054	-.00931	.66076	.22182	2.97888
.796	17.135	.01861	.71977	.05864	-.00723	-.00162	-.00143	-.00860	.67054	.26810	2.50108
.797	19.002	.02198	.77126	.06379	-.00795	-.00163	-.00261	-.00652	.70846	.31144	2.27480
.798	21.234	.03020	.78291	.07143	-.00584	.00149	-.00202	-.01579	.70388	.38013	2.01035
GRADIENT		.00284	.05746	-.00072	.00245	.00008	-.00017	-.00141	.05701	.00300	1.54371

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TABULATED SOURCE DATA-LARC 644

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(RP5017) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5170 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LANDAF = 45.000 ELEVTR = .000
BDFLAP = .000 RUDFLR = .000

RUN NO. 83/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.099	-.00425	-.06614	.02836	-.00917	.00039	.00169	-.00428	-.06506	.03076	-2.11498
.900	.039	.00511	.04751	.02981	-.00776	.00062	.00077	-.00653	.04749	.02984	1.59168
.902	2.519	.01244	.21091	.02763	-.00938	.00109	.00063	-.01075	.20949	.03687	5.68122
.898	4.652	.01596	.34483	.02909	-.00976	-.00125	.00033	-.01185	.34134	.05697	5.99251
.898	6.807	.01835	.43942	.03307	-.00782	-.00175	-.00028	-.01090	.43241	.08492	5.09176
.900	9.080	.01751	.55807	.04047	-.01376	.00032	-.00046	-.00963	.54469	.12804	4.25423
.898	11.052	.02124	.64590	.04805	-.01812	.00114	-.00036	-.01264	.62471	.17098	3.65361
.899	13.288	.02096	.72087	.05659	-.02005	.00022	.00058	-.01648	.68856	.22077	3.11898
.898	15.362	.01664	.77903	.06699	-.02198	-.00466	-.00118	-.02637	.73345	.27097	2.70678
.899	17.357	.02174	.81133	.07397	-.02133	-.00430	-.00342	-.02064	.75232	.31264	2.40635
.898	19.461	.03029	.85338	.07919	-.02155	-.00126	-.00364	-.02586	.77824	.35897	2.16797
.898	21.537	.03063	.89123	.08176	-.02055	-.00208	-.00579	-.02600	.79900	.40322	1.98156
		.00299	.06147	-.00001	-.00015	-.00019	-.00018	-.00119	.06081	.00376	1.25431

GRADIENT

RUN NO. 82/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.151	-.00804	-.11466	.07353	.00409	-.00004	.00196	-.00333	-.11182	.07778	-1.43761
.980	.123	.00202	.03784	.07602	-.00184	.00030	.00164	-.00803	.03768	.07610	.49510
.980	2.387	.00930	.19615	.07725	-.00937	.00095	.00151	-.01191	.19277	.08336	2.25835
.979	4.740	.01446	.37635	.07816	-.01907	.00131	.00107	-.01319	.36861	.10899	3.38195
.980	6.871	.01701	.53691	.08067	-.02939	.00162	.00139	-.01611	.52341	.14432	3.62667
.980	9.236	.02214	.70435	.08225	-.03977	.00221	.00083	-.01693	.68202	.19423	3.51143
.981	11.402	.02787	.83999	.08196	-.04796	.00328	.00028	-.01822	.80721	.24641	3.27589
.978	13.687	.03300	.99427	.08337	-.05805	.00453	.00052	-.02261	.94631	.31627	2.99209
.978	15.814	.02984	1.09287	.08340	-.06052	-.00877	.00123	-.02380	1.02878	.37807	2.72113
.979	18.021	.03479	1.18051	.08892	-.06338	.00063	.00108	-.02650	1.09509	.44976	2.43481
.980	20.056	.03087	1.21643	.09332	-.06161	-.00111	.00142	-.02570	1.11066	.50482	2.20011
.979	21.040	.02731	1.21365	.09589	-.05687	-.00588	-.00062	-.01504	1.09831	.52522	2.09115
		.00326	.07114	.00066	-.00336	-.00020	-.00012	-.00146	.06962	.00451	.70649

GRADIENT

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

(RP5017) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. YMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANDAF = 45.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 81/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.158	-.00664	-.08628	.08079	.00238	.00073	.00180	-.00399	-.08318	.08399	-.99037
1.201	.153	.00349	.05187	.08264	-.00585	.00094	.00156	-.00833	.05165	.08278	.62594
1.201	2.363	.01102	.19602	.08399	-.01472	.00149	.00139	-.01160	.19239	.09200	2.09131
1.201	4.613	.01439	.34604	.08512	-.02387	.00162	.00126	-.01283	.33808	.11268	3.00034
1.199	6.904	.01814	.49355	.08575	-.03237	.00164	.00100	-.01378	.47967	.14445	3.32063
1.198	9.263	.02053	.63650	.08728	-.04080	.00142	.00120	-.01594	.61415	.18860	3.25637
1.200	11.358	.02352	.76077	.08691	-.04712	.00165	.00137	-.01833	.72875	.23503	3.10068
1.199	12.477	.02657	.82308	.08673	-.04996	.00269	.00135	-.01993	.78491	.26251	2.99003
1.199	13.654	.02872	.88798	.08641	-.05267	.00286	.00134	-.02114	.84249	.29359	2.86966
1.199	15.967	.03335	1.01602	.08619	-.05765	.00284	.00140	-.02409	.95311	.36236	2.63027
1.198	18.096	.03603	1.12458	.08656	-.06131	.00129	.00156	-.02644	1.04207	.43159	2.41449
		.00314	.06397	.00064	-.00389	.00014	-.00008	-.00132	.06235	.00422	.59697

GRADIENT

(RP5F17) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BWSVFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9596 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANDAF = 45.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 85/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.349	-1.991	166.35291	-.02284	-.05960	-.08245	-.03477
.350	.090	167.00800	-.02757	-.05699	-.07926	-.03369
.350	2.168	166.72656	-.03194	-.05660	-.06979	-.03422
.349	4.410	166.35221	-.03393	-.05960	-.06849	-.03861
.349	6.425	165.97780	-.03158	-.06404	-.08263	-.03580
.349	8.384	165.88418	-.03257	-.07369	-.09233	-.03775
.349	10.607	165.88418	-.04078	-.09001	-.10584	-.04546
.348	12.696	165.60332	-.06361	-.12478	-.13310	-.07303
.348	14.649	165.50970	-.094. 5	-.16721	-.17333	-.10204
.348	16.796	165.60356	-.14060	-.23926	-.24770	-.16037
.348	18.792	165.69741	-.22425	-.33383	-.33938	-.26348
.349	19.794	165.79127	-.38664	-.48210	-.46187	-.43636
	GRADIENT	-.01484	-.03176	.00001	.00240	-.00058

RUN NO. 84/ 0 RV/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (FSF)	CFB1	CFB2	CFC1	CFC2
.798	-2.097	310.42713	-.01878	-.02637	-.02363	-.02309
.798	.143	310.34123	-.02266	-.02817	-.02338	-.02567
.799	2.416	310.89710	-.02214	-.02687	-.02208	-.02463
.796	4.572	309.46079	-.02293	-.02819	-.02261	-.02568
.797	6.825	310.10355	-.03170	-.03639	-.03163	-.03442
.797	8.902	309.52810	-.04676	-.05779	-.05883	-.04943
.798	10.997	310.28028	-.07668	-.11828	-.13332	-.08181
.797	13.128	309.67510	-.13557	-.19563	-.21861	-.14153
.797	14.723	309.65028	-.22130	-.29032	-.30759	-.24968
.798	17.135	310.05998	-.33121	-.39426	-.40819	-.35375
.797	19.002	309.61400	-.38734	-.43416	-.44883	-.38854
.798	21.234	310.06620	-.47604	-.50986	-.53034	-.46017
	GRADIENT	-.10322	-.00054	-.00019	-.00020	-.00030

TABULATED SOURCE DATA-LARC 644

DATE 07 JUL 73

(RPSF17) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMOVFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN.
LREF = 25.5100 INCHES
BREF = 20.9096 INCHES
SCALE = .0160 SCALE

XMRP = 16.8633 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LARGAF = 45.000 ELEVTR = .000
EDFLAP = .000 RUCLFLR = .000

RUN NO. 83/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.099	354.51964	.00609	-.01047	.00301	-.01318
.900	.039	355.48983	.00520	-.00775	.00210	-.01157
.900	2.519	355.15618	.00041	-.00888	-.00171	-.00888
.898	4.652	354.72560	-.01072	-.01720	-.00979	-.01610
.898	6.807	354.65695	-.03605	-.07155	-.08046	-.04922
.900	9.080	355.49897	-.08018	-.10679	-.11248	-.07878
.898	11.052	354.75281	-.13573	-.20828	-.15515	-.13278
.899	13.288	354.73975	-.21960	-.28732	-.26012	-.22829
.898	15.362	354.52870	-.33712	-.39511	-.39535	-.35690
.899	17.357	354.95470	-.43793	-.48934	-.50790	-.44112
.898	19.461	354.46909	-.49712	-.54214	-.55603	-.47846
.898	21.537	354.53776	-.55199	-.59371	-.60245	-.52953
GRADIENT		.01095	-.00242	-.00093	-.00185	-.00025

RUN NO. 82/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.151	385.43176	-.17579	-.17094	-.18425	-.19550
.980	.123	385.33967	-.16737	-.16527	-.18208	-.19230
.980	2.387	385.27862	-.17592	-.17623	-.19664	-.20808
.979	4.740	385.06413	-.19543	-.19727	-.21634	-.23418
.980	6.871	385.20195	-.23146	-.22975	-.25502	-.26385
.980	9.236	385.84191	-.26496	-.27107	-.28200	-.29572
.981	11.402	386.28827	-.31101	-.31929	-.32631	-.33703
.978	13.687	385.16851	-.35045	-.36676	-.36387	-.37537
.978	15.814	384.55875	-.39248	-.41516	-.43292	-.41957
.979	18.021	384.88021	-.45521	-.46442	-.47806	-.48642
.980	20.056	385.14136	-.51859	-.52890	-.52520	-.53428
.979	21.040	384.63575	-.56218	-.57234	-.57427	-.58555
GRADIENT		-.05087	-.00296	-.00394	-.00485	-.00577

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(RF5P17) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LANDAF = 45.000 ELEVTR = .000
BDFLAP = .000 RUCLFLR = .000

RUN NO. 81/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.201	-2.158	440.62959	-23604	-23968	-23785	-23827
1.201	.153	440.75160	-23243	-22851	-23371	-24029
1.201	2.363	440.70124	-23680	-23339	-24207	-24900
1.201	4.613	440.62959	-24332	-24474	-25476	-25930
1.199	6.904	440.51701	-25399	-26149	-26378	-27302
1.198	9.263	440.30159	-27070	-28225	-27101	-28678
1.200	11.358	440.45896	-29122	-30625	-29078	-30759
1.199	12.477	440.28632	-30142	-32037	-30078	-31921
1.199	13.654	440.26492	-30921	-33372	-31074	-33005
1.199	15.967	440.33050	-33232	-36210	-33001	-35182
1.198	18.096	440.29508	-36203	-38183	-35766	-37742
	GRADIENT	- .00208	- .00116	- .00087	- .00253	- .00318

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB) (RP5018) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.6633 INCHES
LREF = 25.5100 INCHES YMRP = .0000 INCHES
BREF = 20.9096 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LWDAF = 55.000 ELEVTR = .000
BDLAP = .000 RUFLR = .000

RUN NO. 80/ 0 RNVL = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.097	-.00106	-.04794	.02086	-.00497	.00040	.00104	-.00285	-.04018	.02230	-1.80171
.349	.062	.00397	.06220	.02326	-.00387	.00021	.00076	-.00869	.06217	.02333	2.66519
.349	2.143	.00593	.15989	.01766	-.00165	.00083	.00064	-.01092	.15912	.02363	6.73347
.350	4.238	.00746	.26395	.01037	-.00002	.00097	.00055	-.01271	.26246	.02984	8.79519
.350	6.344	.00876	.38230	-.00152	.00128	.00127	.00058	-.01468	.38012	.04073	9.93231
.349	8.448	.00988	.50278	-.01998	.00203	.00198	.00024	-.01491	.49967	.05806	8.60616
.349	10.549	.00920	.62165	-.01324	.00144	.00197	.00099	-.01717	.61394	.09883	6.21216
.349	12.609	.01125	.69205	.00176	-.00231	-.00045	.00025	-.01709	.67497	.13279	4.41770
.349	14.641	.01178	.74430	.00886	-.00317	-.00176	.00036	-.01847	.71789	.19671	3.64946
.350	16.680	.01050	.79417	.01644	-.00511	-.00233	.00052	-.01741	.75604	.24370	3.10238
.350	18.691	.00974	.81894	.02344	-.00527	-.00196	.00066	-.01704	.76759	.28654	2.67886
.349	20.736	.01307	.83490	.03586	-.00444	.00109	.00094	-.02338	.76813	.32914	2.33376
GRADIENT		.00132	.04847	-.00177	.00082	.00011	-.00007	-.00152	.04812	.00110	1.71680

RUN NO. 79/ 0 RNVL = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.097	-.00298	-.04716	.02064	-.00747	.00018	.00173	-.00500	-.04637	.02235	-2.07474
.800	.097	.00460	.06680	.02152	-.00553	.00042	.00132	-.00892	.06677	.02163	3.08651
.799	2.300	.01116	.19389	.01902	-.00404	.00087	.00101	-.01256	.19297	.02679	7.20331
.800	4.535	.01680	.35818	.01574	-.00338	.00073	.00043	-.01431	.33587	.04243	7.91646
.798	6.719	.01820	.45855	.01675	-.00506	-.00045	.00018	-.01441	.45344	.07029	6.45130
.799	8.858	.01781	.54968	.02272	-.00666	.00020	.00072	-.01642	.53983	.10710	5.03869
.799	10.991	.01756	.61971	.02941	-.00663	.00028	.00066	-.01609	.60273	.14702	4.09957
.799	13.067	.01769	.67434	.03677	-.00686	-.00047	.00048	-.01553	.64856	.18828	3.44460
.799	15.142	.01867	.71498	.04865	-.00526	-.00187	-.00052	-.01225	.67745	.23372	2.89855
.799	17.188	.01588	.73285	.05808	-.00212	-.00282	-.00102	-.00812	.68296	.27205	2.51039
.799	19.236	.02913	.76565	.06454	-.00126	.00043	-.00164	-.01612	.70164	.31319	2.24030
.799	21.334	.04009	.81087	.06849	-.00049	.00248	-.00354	-.01729	.73039	.35879	2.03572
GRADIENT		.00298	.05807	-.00078	.00059	.00029	-.00019	-.00143	.05761	.00297	1.54061

DATE: 07 JUL 73

TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWS/VFB)

(RP5018) (19 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.1100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0108 SCALE

BETA = .000 WINGNO = 3.000
 LANDAF = 55.000 ELEVTR = .000
 BDPLAF = .000 RUZFLR = .000

RUN NO. 78/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.163	-.00487	-.06982	.02876	-.00871	-.00007	.00182	-.00440	-.06869	.03138	-2.18895
.900	.076	-.00625	.05666	.02822	-.00763	.00061	.00077	-.00723	.05662	.02829	2.00112
.900	2.340	.01393	.00074	.02907	-.00787	.00121	.00030	-.01036	.19938	.03724	5.35353
.900	4.672	.01738	.34649	.02892	-.00866	-.00072	.00037	-.01293	.34305	.05663	6.05803
.899	6.796	.01927	.45095	.03293	-.00833	-.00118	.00052	-.01483	.44388	.08607	5.15731
.899	8.864	.01868	.55474	.04019	-.01201	.00002	-.00047	-.01040	.54170	.12613	4.29475
.899	11.121	.02276	.65735	.04715	-.01540	.00155	-.00045	-.01326	.63591	.17306	3.67449
.899	13.257	.02225	.72952	.05517	-.01655	.00028	.00023	-.01594	.69756	.22102	3.15610
.899	15.365	.02119	.78565	.06634	-.01729	-.00242	-.00103	-.01905	.74000	.27215	2.71914
.899	17.456	.02434	.83412	.07414	-.01523	-.00292	-.00209	-.00796	.77346	.32094	2.40997
.899	19.536	.03274	.86613	.07750	-.01341	.00055	-.00091	-.01888	.79035	.36268	2.17920
.899	21.636	.04105	.91637	.07928	-.01223	.00186	-.00240	-.01884	.82238	.41156	1.99867
.899	GRADIENT	.00330	.06175	.00006	-.00000	-.00006	-.00021	-.00127	.06109	.00376	1.24463

RUN NO. 77/ 0 RV/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.180	-.00741	-.11484	.07435	.00417	-.00008	.00239	-.00422	-.11192	.07887	-1.41912
.979	.077	.00152	.03763	.07681	-.00125	.00007	.00163	-.00769	.03758	.07886	.48894
.980	2.357	.01017	.19698	.07775	-.00825	.00095	.00149	-.01231	.19362	.08578	2.25714
.981	4.656	.01519	.37449	.07783	-.01788	.00147	.00125	-.01438	.36694	.10797	5.39866
.979	6.908	.01746	.54033	.08004	-.02773	.00148	.00138	-.01633	.52678	.14445	5.64675
.980	9.154	.02208	.69244	.08023	-.03615	.00223	.00101	-.01765	.67086	.18936	5.51270
.981	11.399	.02867	.84812	.08241	-.04806	.00289	.00044	-.01940	.81510	.24840	5.28138
.979	13.612	.03279	.99101	.08308	-.05475	.00232	.00073	-.02333	.94362	.31398	5.00534
.979	15.836	.03563	1.11224	.08451	-.05889	.00138	.00120	-.02730	1.04697	.38482	2.72070
.981	18.014	.03436	1.19921	.08781	-.05960	-.00055	.00185	-.02942	1.11332	.45424	2.45095
.981	20.119	.03243	1.24359	.09207	-.05765	-.00174	.00049	-.02280	1.13604	.51422	2.20925
.981	GRADIENT	.00335	.07142	.00047	-.00321	.00074	-.00012	-.00154	.06990	.00423	.71153

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BLSVFB) (RP3018) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 50 IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUOFPLR = .000

RUN NO. 76/ D RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.199	-2.154	-.00569	-.08527	.07959	.00264	.00082	.00173	-.00422	-.08222	.08274	-.99370
1.199	.081	.00463	.04734	.08180	-.00478	.00098	.00145	-.00849	.04722	.08187	.57681
1.199	2.565	.01122	.19805	.08290	-.01360	.00138	.00132	-.01139	.19446	.09100	2.13693
1.199	4.634	.01589	.34977	.08326	-.02224	.00136	.00120	-.01339	.34190	.11124	3.07350
1.199	6.912	.01880	.49442	.08359	-.03012	.00170	.00111	-.01461	.48077	.14248	3.37421
1.199	9.160	.02161	.63219	.08344	-.03728	.00161	.00124	-.01670	.61064	.18302	3.53754
1.199	11.430	.02485	.77001	.08391	-.04425	.00209	.00141	-.01921	.73811	.23483	3.14318
1.199	13.665	.02975	.89585	.08368	-.04960	.00235	.00141	-.02198	.85072	.29296	2.90393
1.199	15.916	.03360	1.01674	.08347	-.05396	.00204	.00146	-.02448	.95487	.35908	2.65918
1.199	18.732	.03728	1.12193	.08376	-.05579	.00177	.00150	-.02689	1.04016	.42875	2.42599
1.199	GRADIENT	.00315	.06429	.00053	-.00369	.00009	-.00008	-.00134	.06269	.00419	1.60749

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TABULATED SOURCE DATA-LARC 544

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(RF5P18) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

YMRP = 16.833 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 80/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.030	166.07070	-.02432	-.05969	-.08259	-.03627
.349	.062	166.35268	-.02766	-.05672	-.08102	-.03430
.349	2.143	166.44580	-.03150	-.05765	-.06943	-.03428
.350	4.238	166.72656	-.03242	-.05995	-.07220	-.03614
.350	6.344	166.82038	-.03144	-.06421	-.08512	-.03565
.349	8.448	166.16501	-.03300	-.07404	-.09411	-.03818
.349	10.549	166.35268	-.04261	-.09168	-.10605	-.04967
.349	12.609	166.44651	-.06475	-.12678	-.13101	-.07893
.349	14.641	166.35268	-.09563	-.16781	-.16477	-.11836
.350	16.680	166.63369	-.14071	-.23494	-.23226	-.17379
.350	18.691	166.63369	-.20376	-.31285	-.32645	-.24332
.349	20.736	166.35291	-.28363	-.38712	-.41075	-.27495
GRADIENT		.09869	-.00135	-.02208	-.02205	-.02202

RUN NO. 79/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.097	311.28899	-.01800	-.02582	-.02309	-.02281
.800	.097	311.49018	-.02109	-.02633	-.02309	-.02332
.799	2.300	310.86756	-.02238	-.02712	-.02362	-.02462
.800	4.535	311.36235	-.02315	-.02787	-.02361	-.02512
.798	6.719	310.60318	-.03271	-.03687	-.03445	-.03542
.799	8.858	311.09398	-.04558	-.05271	-.05012	-.04747
.799	10.991	311.02686	-.06982	-.11418	-.12685	-.07856
.799	13.067	310.86130	-.12635	-.18547	-.27059	-.13798
.799	15.142	310.95972	-.23513	-.30120	-.32902	-.25228
.799	17.188	311.07518	-.35209	-.40608	-.43961	-.36600
.799	19.236	311.29527	-.41393	-.46236	-.49384	-.39655
.799	21.334	311.31409	-.46671	-.51426	-.53456	-.43862
GRADIENT		-.01800	-.00076	-.00031	-.00029	-.00037

REFERENCE DATA

SREF = 173.1512 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE
 XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES
 BETA = .000 WINGNO = 3.000
 LAMDAF = 55.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

PARAMETRIC DATA

RUN NO.	78/ 0	RV/L =	1.99	GRADIENT	INTERVAL =	-5.00/	5.00
MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2	
.899	-2.163	354.86790	.00694	-.01180	.00188	-.01362	
.900	.076	355.61322	.00213	-.01089	-.00149	-.01405	
.901	2.340	355.12408	.00323	-.00955	.00053	-.00889	
.902	4.672	355.13320	-.00846	-.01583	-.00888	-.01384	
.899	6.796	355.03241	-.02969	-.04680	-.04587	-.03612	
.899	8.964	354.94561	-.07714	-.09932	-.09687	-.07688	
.899	11.122	355.15142	-.13535	-.20737	-.15205	-.13196	
.899	13.257	355.09192	-.21148	-.26910	-.24476	-.21344	
.899	15.365	355.02331	-.33778	-.39030	-.40405	-.38662	
.899	17.456	354.89518	-.45698	-.50334	-.51995	-.44997	
.899	19.536	354.83564	-.52622	-.56785	-.59654	-.51580	
.899	21.636	354.95470	-.55925	-.59639	-.61958	-.53567	
GRADIENT		.01334	-.00200	-.00048	-.00134	.00020	

RUN NO.	77/ 0	RV/L =	2.04	GRADIENT INTERVAL =	-5.00/ 5.00	
MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.979	-2.180	384.82036	-.17805	-.17400	-.18756	-.19737
.979	.077	384.68307	-.17038	-.16742	-.18469	-.19451
.980	2.357	385.35437	-.17706	-.17820	-.19758	-.20880
.981	4.656	385.64519	-.19879	-.19958	-.22093	-.23313
.979	6.978	385.04840	-.22349	-.22411	-.24687	-.25634
.980	9.154	384.92789	-.26270	-.26847	-.27958	-.29251
.981	11.399	385.55699	-.31383	-.32872	-.32293	-.33740
.979	13.612	385.01242	-.34617	-.36231	-.35752	-.36675
.979	15.836	385.04840	-.39822	-.42126	-.41470	-.41592
.981	18.008	385.69416	-.45817	-.47580	-.47266	-.47832
.981	20.119	385.57228	-.53814	-.54513	-.55460	-.56071
GRADIENT		.13823	-.00304	-.00385	-.00497	-.00535

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LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB) (RP5P18) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 55.000 ELEVTR = .000
 BDFLAF = .000 RUOFLR = .000

RUN NO. 76/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.199	-2.154	440.17787	-23431	-23905	-23541	-23673
1.199	.081	440.14884	-23144	-22770	-23473	-23877
1.199	2.365	440.04801	-23564	-23169	-23965	-24714
1.199	4.634	440.07703	-23960	-24106	-24925	-25472
1.199	6.912	440.09843	-25058	-26010	-26093	-26837
1.199	9.160	440.09843	-26479	-28110	-27135	-28344
1.199	11.430	439.94089	-28701	-30897	-28695	-30378
1.199	13.665	440.07703	-30666	-33916	-30766	-32680
1.199	15.916	439.98996	-32923	-35616	-32292	-34621
1.199	18.132	440.07703	-36843	-38169	-35660	-37928
1.199	GRADIENT	-0.01781	-0.00089	-0.00045	-0.00205	-0.00276

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BMSVFB)

(RP5019) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0180 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAWDIF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 75/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.340	-2.042	.00037	-.04375	.02064	-.00508	.00026	.00116	-.00533	-.04298	.02236	-1.92030
.349	.051	.00419	.05917	.02326	-.00341	.00031	.00069	-.00871	.05915	.02331	2.33765
.349	2.143	.00569	.15803	.01907	-.00103	.00069	.00062	-.01053	.15720	.02497	6.29686
.349	4.245	.00832	.26843	.01126	.00116	.00095	.00041	-.01330	.26686	.03110	8.58113
.349	6.348	.00865	.38257	.00048	.00270	.00116	.00044	-.01394	.38018	.04278	8.88702
.350	8.467	.01036	.50474	-.01341	.00404	.00180	.00020	-.01540	.50121	.06106	8.20863
.350	10.567	.00753	.62306	-.00876	.00308	.00314	.00204	-.01914	.61410	.10564	5.81306
.349	12.628	.01229	.70281	-.00156	.00406	-.00100	-.00035	-.01608	.68615	.15212	4.51055
.349	14.687	.01551	.75327	.00629	.00624	.00921	.00067	-.02511	.72706	.19707	3.68937
.350	16.762	.02005	.83979	.00726	.00601	.01073	.00030	-.03037	.80201	.24914	3.21927
.349	18.807	.02220	.89033	.01235	.00687	.00763	-.00146	-.02656	.83881	.29871	2.80807
.349	20.809	.02796	.91261	.02080	.00789	.01028	-.00252	-.03114	.84569	.34365	2.46388
GRADIENT		.00121	.04942	-.00157	.00101	.00012	-.00011	-.00123	.04904	.00133	1.68274

RUN NO. 74/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.098	-.00142	-.04700	.02058	-.00757	.00036	.00161	-.00563	-.04621	.02228	-2.07376
.800	.103	.00700	.06441	.02158	-.00529	.00050	.00128	-.01055	.06437	.02170	2.96666
.800	2.314	.01215	.19372	.01960	-.00336	.00091	.00101	-.01325	.19277	.02740	7.03506
.799	4.557	.01723	.34134	.01603	-.00238	.00083	.00040	-.01452	.33899	.04309	7.86534
.800	6.778	.01870	.46883	.01784	-.00330	-.00029	.00016	-.01465	.46344	.07305	6.34414
.800	8.901	.01765	.56573	.02249	-.00394	-.00024	.00052	-.01544	.55544	.10976	5.06070
.798	11.032	.02058	.65414	.02469	-.00194	.00286	.00107	-.02007	.63728	.14963	4.25903
.798	13.185	.02219	.71084	.03159	.00067	.00313	.00098	-.02109	.68489	.19290	3.55045
.800	15.290	.02444	.77649	.04010	.00157	.00315	.00123	-.02397	.73843	.24345	3.03316
.800	17.334	.02569	.80966	.05007	.00515	.00053	-.00005	-.01979	.75787	.28929	2.61977
.800	19.424	.02899	.84821	.05980	.00654	.00102	.00000	-.02284	.78005	.33847	2.30464
.800	21.478	.02984	.86515	.06334	.00860	.00011	-.00212	-.01501	.78189	.37570	2.08113
GRADIENT		.00275	.05839	-.00071	.00079	.00008	-.00018	-.00132	.05792	.00308	1.52644

(RP5019) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIES) (EW3VFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8533 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0103 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 73/0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
.898	-2.156	-.00312	-.06321	.02753	-.00956	.00036	.00148	-.00413	-.06213	.02989	-2.07866
.900	.065	.00708	.05610	.02770	-.00762	.00064	.00070	-.00752	.05607	.02776	2.01943
.902	2.346	.01421	.20375	.02790	-.00786	.00107	.00034	-.01068	.20244	.03622	5.58983
.899	4.616	.01807	.35497	.02742	-.00885	-.00005	.00032	-.01317	.35161	.05590	6.28983
.900	6.822	.01930	.46254	.03175	-.00782	-.00055	.00009	-.01304	.45549	.08647	5.26784
.900	8.976	.01843	.55842	.03789	-.00955	-.00050	.00028	-.01101	.45567	.12455	4.38104
.900	11.190	.02348	.68794	.04396	-.01357	.00278	.00081	-.01900	.66633	.17653	3.77251
.900	13.356	.02322	.77340	.05187	-.01382	-.00107	-.00045	-.01368	.74050	.22913	3.23177
.900	15.503	.02134	.85834	.06174	-.01384	-.00224	.00082	-.01783	.81061	.28891	2.80573
.901	17.620	.03139	.90150	.06831	-.00815	-.00085	-.00197	-.01321	.83853	.33799	2.48094
.899	19.719	.03117	.92854	.07337	-.00371	-.00102	-.00116	-.01680	.84886	.38220	2.22099
.901	21.812	.03222	.98319	.07626	-.00267	-.00139	-.00276	-.01111	.86438	.43608	2.02800
GRADIENT		.00313	.06207	-.00001	.00008	-.00004	-.00017	-.00134	.06142	.00384	1.26767

RUN NO. 72/0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CEL	CYN	CY	CL	CD	L/D
.980	-2.170	-.00669	-.11321	.07383	.00379	-.00007	.00199	-.00424	-.11033	.07807	-1.41331
.981	.100	.00378	.03851	.07644	-.00101	.00007	.00148	-.00843	.03837	.07650	.50156
.980	2.361	.01052	.19708	.07715	-.00758	.00072	.00137	-.01205	.19374	.08521	2.27367
.980	4.651	.01497	.37335	.07863	-.01665	.00157	.00125	-.01422	.36574	.10865	3.36621
.980	6.911	.01795	.54093	.08020	-.02598	.00118	.00109	-.01542	.52735	.14471	3.64415
.980	9.156	.02206	.69446	.08098	-.03348	.00173	.00070	-.01639	.67269	.19057	3.52986
.981	11.406	.02797	.84068	.08121	-.04116	.00212	.00011	-.01761	.80802	.24586	3.28648
.981	13.641	.03187	.98907	.08616	-.05034	.00193	.00029	-.02090	.94086	.31699	2.96808
.981	15.877	.03190	1.11512	.08651	-.05416	.00286	.00187	-.02770	1.04892	.36828	2.70147
.981	18.072	.03406	1.22674	.09028	-.05675	-.00354	.00156	-.02802	1.13821	.46639	2.44048
.981	20.229	.03579	1.29768	.09115	-.05322	-.00190	.00133	-.02843	1.18612	.53422	2.22027
GRADIENT		.00316	.07122	.00066	-.00299	.00025	-.00010	-.00148	.06969	.00443	.70877

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

(RP5019) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
LREF = 2".5100 INCHES YMRP = .0000 INCHES
BREF = 23.9054 INCHES ZMRP = .0000 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAMCAF = 65.000 ELEVTR = .000
EDFLAP = .000 RUOFLR = .000

RUN NO. 71/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MAIT	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.154	-.00490	-.08600	.07886	.00288	.00048	.00165	-.00428	-.08297	.08204	-1.01140
1.200	.089	.00511	.04823	.08061	-.00395	.00093	.00142	-.00862	.04811	.08068	.59625
1.200	2.375	.01201	.20184	.08204	-.01231	.00150	.00126	-.01159	.19827	.09034	2.19483
1.200	4.654	.01569	.33351	.08236	-.02079	.00183	.00109	-.01284	.34566	.11077	3.12057
1.200	6.947	.01875	.50363	.08253	-.02842	.00166	.00096	-.01394	.48995	.14284	3.42996
1.200	9.211	.02152	.64621	.08301	-.03502	.00172	.00095	-.01541	.62459	.18538	3.56926
1.200	11.479	.02474	.78475	.08343	-.04123	.00131	.00129	-.01864	.75245	.23793	3.16252
1.200	13.762	.02929	.91732	.08406	-.04638	.00123	.00140	-.02171	.87099	.29986	2.90462
1.201	15.990	.03272	1.03058	.08370	-.04891	.00137	.00147	-.02401	.96765	.36436	2.65575
1.200	18.191	.03517	1.13875	.08484	-.05086	.00174	.00178	-.02687	1.05535	.43610	2.41995
	GRADIENT	.05302	.06483	.00052	-.00350	.00020	-.00008	-.00126	.06324	.00423	.61604

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5P19) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNOVFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN.
 LREF = 25.3100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

WARP = 16.8633 INCHES
 YWARP = .0000 INCHES
 ZWARP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 75/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.348	-2.042	165.50830	-.02391	-.06084	-.08090	-.03542
.349	.051	166.16524	-.02914	-.05822	-.07963	-.03385
.349	2.143	166.44604	-.03150	-.05908	-.07133	-.03524
.349	4.245	166.53987	-.03197	-.06096	-.07177	-.03618
.349	6.348	166.53963	-.03149	-.06527	-.08091	-.03378
.350	8.467	166.72704	-.03194	-.07284	-.09042	-.03519
.350	10.567	166.72704	-.04252	-.09431	-.10291	-.05100
.349	12.628	166.53963	-.06134	-.12122	-.12081	-.07745
.349	14.687	166.53987	-.10083	-.17958	-.17803	-.08800
.350	16.762	166.63369	-.13398	-.22822	-.22599	-.12296
.349	18.807	166.44604	-.17797	-.27728	-.31717	-.18887
.349	20.809	166.44627	-.26276	-.36389	-.39463	-.23927
	GRADIENT	.16105	-.00127	-.00006	.00170	-.00018

RUN NO. 74/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.098	311.96158	-.01593	-.02426	-.02075	-.02048
.800	.105	311.86308	-.02082	-.02631	-.02153	-.02331
.800	2.314	311.44197	-.02186	-.02684	-.02128	-.02358
.799	4.557	311.30782	-.02263	-.02837	-.02308	-.02512
.800	6.778	311.72903	-.02982	-.03449	-.03103	-.03254
.800	8.901	311.74790	-.04500	-.05032	-.04747	-.04791
.798	11.052	310.83167	-.05901	-.09501	-.10011	-.06394
.798	13.185	310.42713	-.11514	-.16722	-.19336	-.11421
.800	15.290	311.56980	-.19584	-.25639	-.29448	-.18592
.800	17.354	311.69756	-.31078	-.37357	-.41666	-.30788
.800	19.424	311.64312	-.41581	-.47458	-.52593	-.40075
.800	21.478	311.56980	-.47948	-.53604	-.58850	-.45598
	GRADIENT	-.10742	-.00095	-.00058	-.00030	-.00064

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFB) (RPSP19) (19 MAY 73)

REFERENCE DATA

SRF = 173.1312 S2.IN.
 LREF = 25.5100 INCHES
 ZREF = 20.9096 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANDAF = 65.000 ELEVTR = .000
 BDFLAP = .000 RUOFLR = .000

RUN NO. 73/ 0 RV/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.156	354.43285	.00436	-.01069	.00188	-.01296
.900	.065	355.38927	.00281	-.01022	-.00014	-.01158
.901	2.346	355.56752	-.00198	-.01246	-.00551	-.01203
.899	4.616	354.76701	-.01004	-.01652	-.01226	-.01430
.900	6.822	355.51725	-.02897	-.04158	-.03747	-.03113
.901	8.976	354.96868	-.07329	-.10200	-.08602	-.08025
.900	11.190	355.39840	-.11879	-.21101	-.12873	-.11478
.901	13.356	355.57656	-.19563	-.25616	-.24960	-.19158
.900	15.503	355.67264	-.29929	-.35372	-.36909	-.28859
.901	17.620	356.04720	-.41542	-.47191	-.47981	-.40992
.899	19.719	354.56615	-.51530	-.57203	-.59382	-.49478
.901	21.812	355.63605	-.56450	-.61757	-.64653	-.53420
GRADIENT		.05144	-.00213	-.00088	-.00212	-.00020

RUN NO. 72/ 0 RV/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.170	384.89711	-.17600	-.17278	-.18447	-.19512
.981	.100	385.61453	-.17173	-.16958	-.18580	-.19601
.980	2.361	385.27862	-.17592	-.17662	-.19685	-.20829
.981	4.651	385.43104	-.19978	-.19950	-.22358	-.23081
.980	6.911	385.01873	-.22694	-.22564	-.25051	-.25604
.981	9.166	384.97379	-.25645	-.26633	-.27291	-.28731
.980	11.406	385.26385	-.30173	-.31626	-.31396	-.32536
.981	13.641	385.55350	-.36767	-.36604	-.39371	-.38193
.980	15.877	385.61453	-.40901	-.41846	-.44330	-.42644
.981	18.072	385.72139	-.45531	-.46567	-.48931	-.45972
.980	20.229	385.84653	-.50538	-.55359	-.50734	-.51355
GRADIENT		.05571	-.00333	-.00384	-.00565	-.00526

TABULATED SOURCE DATA-LARC 644

DATE 07 JUL 73

(REF5P19) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (94,0VFB)

REFERENCE DATA

SREF = 173.1312 SQ. IN.
LREF = 25.5100 INCHES
BREF = 20.9096 INCHES
SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LAMCAF = 65.000 ELEVTR = .000
EDFLAP = .000 RUFLR = .000

RUN NO. 71/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.200	-2.154	440.58113	-.23427	-.23934	-.23627	-.23705
1.200	.089	440.53073	-.23082	-.22633	-.23446	-.23869
1.200	2.375	440.63153	-.23590	-.23373	-.24117	-.24757
1.200	4.654	440.37951	-.24248	-.24515	-.25247	-.25776
1.200	6.947	440.53073	-.25157	-.26249	-.26300	-.27062
1.200	9.211	440.63153	-.26721	-.28561	-.26716	-.28148
1.200	11.479	440.55793	-.28969	-.31265	-.28980	-.30570
1.200	13.762	440.73232	-.31195	-.34667	-.31311	-.33259
1.201	15.950	440.75942	-.33386	-.37024	-.32845	-.35079
1.200	18.191	440.66058	-.37471	-.40105	-.36615	-.38515
	GRADIENT	-.02222	-.00131	-.00110	-.00244	-.00313

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BAGVFB)

(RP5020) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
 LAMCAF = 70.000 ELEVTR = .000
 BSFLAP = .000 RUFLR = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RN/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.351	-2.048	-.00053	-.04832	.02109	-.00553	-.00004	.00119	-.00421	-.04753	.02280	-2.08435
.350	.059	.00375	.05589	.02350	-.00318	.00034	.00067	-.00799	.05587	.02355	2.37209
.350	2.154	.00721	.15640	.01884	-.00042	.00066	.00037	-.01159	.15558	.02470	6.29830
.350	4.278	.00846	.26704	.01173	.00212	.00100	.00038	-.01332	.26542	.03161	8.39539
.351	6.361	.00965	.39066	.00016	.00416	.00120	.00030	-.01470	.38823	.04344	8.93688
.350	8.488	.01080	.50945	-.01172	.00555	.00211	.00008	-.01546	.50560	.06360	7.94930
.351	10.580	.00928	.62589	-.01106	.00575	.00251	.00150	-.01932	.61728	.10404	5.93303
.350	12.653	.01319	.71357	.00120	.00581	-.00014	-.00004	-.01862	.69598	.15748	4.41958
.350	14.763	.01467	.81562	-.00164	.00957	-.00136	-.00058	-.01863	.78912	.20625	3.82800
.350	16.791	.01441	.84796	.00610	.01266	-.00312	-.00263	-.01822	.81005	.25080	3.22979
.350	18.851	.01412	.89390	.01375	.01243	-.00293	.00023	-.02163	.84151	.30184	2.78793
.350	20.876	.01596	.94469	.01768	.01311	.00054	.00040	-.02534	.87638	.35316	2.48152
GRADIENT		.00144	.04967	-.00156	.00122	.00016	-.00013	-.00147	.04929	.00131	1.67765

RUN NO. 69/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.093	-.00283	-.04979	.02088	-.00781	.00030	.00165	-.00477	-.04900	.02269	-2.15946
.799	.096	.00597	.06426	.02179	-.00497	.00160	.00131	-.00993	.06423	.02190	2.93324
.800	2.334	.01151	.19122	.01928	-.00252	.00088	.00092	-.01240	.19028	.02705	7.03369
.799	4.556	.01739	.33726	.01585	-.00110	.00096	.00043	-.01479	.33493	.04259	7.86338
.799	6.749	.01931	.46053	.01735	-.00209	-.00048	.00008	-.01483	.45530	.07135	6.38079
.799	8.945	.01919	.57285	.02267	-.00301	.00043	.00044	-.01630	.56236	.11147	5.04502
.799	11.103	.02039	.66428	.02584	-.00084	.00054	.00032	-.01685	.64687	.15327	4.22035
.799	13.229	.02199	.74710	.03125	.00143	-.00053	-.00006	-.01661	.72012	.20138	3.57591
.799	15.352	.02564	.82149	.04033	.00229	-.00014	-.00019	-.01904	.78053	.25611	3.04762
.798	17.505	.02904	.88361	.04657	.00644	-.00151	-.00162	-.01599	.82869	.31019	2.67154
.798	19.597	.02956	.92853	.05206	.00693	-.00189	-.00263	-.01246	.85729	.36047	2.37822
.798	21.622	.02703	.95242	.05884	.01308	-.00295	-.00296	-.00939	.86372	.40565	2.12923
GRADIENT		.00298	.05807	-.00080	.00102	.00010	-.00018	-.00147	.05761	.00293	1.53902

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TABULATED SOURCE DATA-LARC 644

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(RF5020) (19 MAY 73)

LARC 8-FT 7FT 644 LO-100 ORBITER (SHIPS) (BMAVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

BETA =
 LAMDAF =
 BDFLAP =

WINGNO = 3.000
 ELEVTR = .000
 RUFLR = .000

RUN NO. 68/0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.898	-2.151	-.00320	-.06331	.02714	-.01036	.00048	.00161	-.00462	-.06225	.02950	-2.11008
.899	.086	.00634	.05405	.02892	-.00689	.00056	.00080	-.00746	.05401	.02900	1.86256
.899	2.360	.01382	.20126	.02872	-.00633	.00106	.00036	-.01054	.03699	.03699	5.40454
.899	4.634	.01821	.35365	.02797	-.00707	-.00073	.00029	-.01317	.35023	.05646	6.20363
.899	6.831	.01957	.46875	.03093	-.00780	-.00093	-.00036	.46174	.08646	.08646	5.34029
.899	9.004	.01943	.56644	.04005	-.00896	-.00039	-.00014	-.01228	.55319	.12821	4.31477
.898	11.239	.02652	.69460	.04536	-.01197	.00105	.00040	-.01935	.67244	.17987	3.73843
.898	13.421	.02626	.81057	.04781	-.01359	.00183	.00129	-.02302	.77734	.23465	3.31281
.898	15.575	.02701	.88255	.05819	-.01173	-.00095	-.00050	-.01689	.83452	.29301	2.84811
.898	17.740	.03123	.96122	.06634	-.00828	-.00004	.00070	-.02438	.89530	.35607	2.51436
.897	19.895	.03724	.99346	.07040	-.00233	-.00321	-.00459	-.00681	.91050	.40363	2.25579
.897	21.917	.03218	1.02715	.07246	.00251	-.00320	-.00376	-.00703	.92587	.45061	2.05470
.897		.00317	.06160	.00010	.00046	-.00014	-.00019	-.00127	.06114	.00393	1.25770

GRADIENT

RUN NO. 67/0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.177	-.00650	-.11485	.07190	.00324	-.00014	.00212	-.00492	-.11204	.07622	-1.47004
.980	.088	.00360	.03710	.07645	-.00187	.00020	.00155	-.00864	.03698	.07650	.48343
.979	2.388	.01086	.19783	.07712	-.00685	.00072	.00154	-.01297	.19444	.08529	2.27964
.980	4.662	.01586	.37817	.07859	-.01583	.00140	.00141	-.01545	.36854	.10730	3.38418
.979	6.952	.01852	.54241	.07995	-.02471	.00138	.00148	-.01740	.52875	.14501	3.64622
.980	9.214	.02650	.70134	.08258	-.03294	.00199	.00168	-.01680	.67907	.19382	3.50357
.980	11.449	.02806	.84758	.08278	-.04003	.00206	.00029	-.01841	.81428	.24037	3.26533
.979	13.684	.03307	.99949	.08548	-.04818	.00250	.00049	-.02253	.95090	.31950	2.97624
.979	15.912	.03428	1.12489	.08539	-.05119	.00126	.00189	-.02936	1.06837	.39052	2.71017
.980	18.152	.03770	1.24275	.08867	-.05379	-.00384	.00138	-.02960	1.15328	.47142	2.44641
.979	19.929	.03963	1.31701	.09142	-.05335	-.00101	.00093	-.02928	1.20698	.53486	2.25663
.979		.00326	.07160	.00091	-.00277	.00023	-.00079	-.00157	.07009	.00468	.71694

GRADIENT

AEC A-ET TET 644 LO-150 ORBITER (SHIPS) (BL3VFB)

REFERENCE DATA

3REF =	173.1312 SQ.IN.	YMRP =	16.8633 INCHES
4REF =	25.5100 INCHES	YMRP =	.0000 INCHES
5REF =	20.9096 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0100 SCALE		

RUN NO. 66/0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.1,200	-2.148	-0.0953	-0.0822	0.7823	0.0302	0.0083	0.0180	-0.02460	-0.08523	0.08148	-1.04602
1.1,200	0.097	0.0513	0.0671	0.0032	-0.0378	0.0092	0.0151	-0.00900	0.04657	0.08040	-0.57927
1.1,200	2.388	0.1229	0.1684	0.0079	-0.01159	0.0144	0.0127	-0.01178	0.19330	0.08892	2.17394
1.1,200	4.668	0.1637	0.3534	0.0090	-0.01954	0.0161	0.0115	-0.01342	0.34359	0.10823	3.14566
1.1,199	6.967	0.1988	0.50279	0.08136	-0.02673	0.0164	0.0094	-0.01448	0.48920	0.14175	3.45122
1.1,198	9.251	0.2337	0.64837	0.08183	-0.03284	0.0183	0.0084	-0.01597	0.62678	0.18501	3.38788
1.1,201	11.541	0.2673	0.79150	0.08263	-0.03900	0.0158	0.0122	-0.01905	0.75897	0.23931	3.17150
1.1,199	13.781	0.3074	0.92491	0.08567	-0.04452	0.0119	0.0116	-0.02150	0.87788	0.30353	2.89225
1.1,199	16.033	0.3513	1.04400	0.08526	-0.04699	0.0101	0.0124	-0.02440	0.97985	0.37028	2.64620
1.1,200	13.266	0.3803	1.15298	0.08643	-0.04896	0.0171	0.0166	-0.02799	1.06779	0.44346	2.40786
GRADIENT	0.03320	0.05680	0.07037	0.07332	0.00013	-0.00010	-0.00128		0.63303	0.02404	-0.67738

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

(RP5F2D) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWS/VFB)

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
LANCAF = 70.000 ELEVTR = .000
BDFLAP = .000 RUOFLR = .000

REFERENCE DATA

SREF = 173.1312 SQ.IN.
LREF = 23.5100 INCHES
BREF = 20.9096 INCHES
SCALE = .0188 SCALE

RUN NO. 70/0 RV/L = 2.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.351	-2.048	167.66339	-.02269	-.05963	-.07730	-.03406
.350	.059	167.38274	-.02702	-.05782	-.07886	-.03459
.350	2.154	166.63416	-.03195	-.05758	-.07055	-.03473
.350	4.278	167.38298	-.03183	-.06067	-.07360	-.03411
.351	6.361	167.57032	-.02844	-.06584	-.08547	-.03217
.350	8.488	167.38274	-.03183	-.07542	-.09273	-.03697
.351	10.580	167.57032	-.04137	-.09150	-.10554	-.04743
.350	12.653	166.72798	-.05935	-.11870	-.12046	-.07113
.350	14.763	166.91538	-.08091	-.14958	-.13712	-.10409
.350	16.791	167.19595	-.12970	-.20650	-.19197	-.15936
.350	18.851	167.47653	-.18647	-.26893	-.27055	-.20776
.350	20.876	167.10252	-.24063	-.33959	-.36651	-.25508
	GRADIENT	-.07506	-.0153	-.07314	-.07082	-.07001

RUN NO. 69/0 RV/L = 1.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.093	311.34350	-.01646	-.02454	-.02039	-.02128
.799	.096	310.54737	-.02058	-.02635	-.02117	-.02360
.800	2.334	311.03128	-.02394	-.02891	-.02350	-.02566
.799	4.556	310.80042	-.02316	-.02640	-.02323	-.02539
.799	6.749	310.83070	-.03039	-.03532	-.03148	-.03363
.799	8.945	310.90964	-.04406	-.04992	-.04616	-.04776
.799	11.103	310.56147	-.05880	-.10073	-.10833	-.06812
.799	13.229	310.63487	-.11249	-.17045	-.17507	-.12907
.799	15.352	310.80042	-.18700	-.26442	-.27109	-.19771
.798	17.505	310.43961	-.27141	-.34064	-.37405	-.28332
.798	19.597	310.58021	-.35960	-.43743	-.46954	-.38637
.798	21.622	310.51304	-.44619	-.51344	-.56093	-.45979
	GRADIENT	-.05575	-.00106	-.00064	-.00049	-.00065

DATE 07 JUL 73

TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BNOVFB) (RP5P2D) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 70.000 ELEVTR = .000
 BDPLAP = .000 RUOFLR = .000

RUN NO. 68/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.898	-2.151	353.92498	.00677	-.00710	.00493	-.00958
.899	.086	354.90919	.00630	-.00686	.00378	-.00979
.899	2.360	355.05549	.00346	-.00866	.00199	-.00686
.899	4.634	354.30071	-.00779	-.01361	-.00855	-.01138
.899	6.831	354.49752	-.02679	-.03248	-.02978	-.02828
.899	9.004	354.75378	-.07808	-.03555	-.08664	-.08300
.898	11.239	354.44191	-.11299	-.19293	-.12739	-.11463
.898	13.421	354.39657	-.16143	-.22486	-.21597	-.16380
.898	15.575	354.28646	-.28484	-.33306	-.35233	-.28925
.898	17.740	354.21779	-.39061	-.44195	-.45436	-.38924
.897	19.855	353.91956	-.47750	-.53976	-.55836	-.46949
.897	21.917	353.90150	-.54300	-.60663	-.63510	-.52845
	GRADIENT	.05565	-.00206	-.00794	-.00187	-.00011

RUN NO. 67/ 0 RN/L = 2.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.177	385.15730	-.16879	-.16459	-.17696	-.18937
.980	.088	385.15694	-.17580	-.17382	-.18874	-.19864
.980	2.388	385.03484	-.18124	-.18108	-.20083	-.21133
.980	4.662	385.14178	-.20435	-.20259	-.22806	-.23435
.979	6.952	384.57600	-.22334	-.22104	-.24727	-.25041
.980	9.214	385.26301	-.26703	-.27146	-.28026	-.29224
.980	11.449	385.20678	-.31576	-.31674	-.31892	-.32874
.979	13.684	384.94195	-.36836	-.36413	-.38914	-.37953
.979	15.912	384.77440	-.40479	-.40932	-.43552	-.42414
.980	18.152	385.18726	-.45015	-.45416	-.48494	-.45791
.979	19.929	384.60623	-.49643	-.49972	-.52892	-.51111
	GRADIENT	-.00742	-.00491	-.00531	-.00725	-.00647

DATE 07 JUN 73 TABULATED SOURCE DATA-LARC 644

(RP5P20) (19 MAY 73)

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BUAVFD)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.3107 INCHES YREF = .0000 INCHES
 DREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
 LAMCAF = 70.000 ELEVTR = .000
 BDFLAP = .000 RUDEFLR = .000

RUN NO. 66/ 0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CPC2
1.200	-2.148	440.23429	-23198	-23924	-23481	-23640
1.200	.097	440.27695	-23152	-22648	-23471	-23939
1.200	2.388	439.87381	-23502	-23376	-24021	-24634
1.200	4.668	439.88148	-24149	-24616	-25104	-25715
1.199	6.967	440.06320	-25132	-26388	-26176	-27056
1.198	9.251	440.02784	-27009	-28742	-27105	-28564
1.201	11.541	440.41249	-29141	-31327	-29288	-30868
1.199	13.781	440.10605	-31244	-34576	-31297	-33147
1.199	16.033	440.07076	-33341	-37020	-32627	-34873
1.200	18.266	440.24199	-36959	-40052	-36404	-38225
	GRADIENT	-0.06438	-0.00141	-0.00124	-0.00239	-0.00305

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BOWFVB) (RP5021) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 75.000 ELEVTR = .000
 BDPLAP = .000 RUOFLR = .000

RUN NO. 65/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.348	-2.027	-.00090	-.04746	.02089	-.00579	-.00015	.00130	-.00415	-.04669	.02256	-2.06967
.349	.086	.00265	.06275	.02339	-.00262	.00027	.00096	-.00772	.06271	.02348	2.67041
.348	2.168	.00580	.15892	.01840	.00067	.00050	.00058	-.01038	.15811	.02440	6.47946
.348	4.260	.00764	.26845	.01132	.00370	.00093	.00053	-.01296	.26687	.03123	8.54546
.348	6.359	.00826	.38595	.00058	.00635	.00121	.00051	-.01379	.38352	.04332	8.85277
.348	8.482	.01072	.51086	-.01148	.00852	.00157	.00030	-.01543	.50696	.06400	7.92169
.348	10.595	.00853	.63966	-.01214	.00822	.00292	.00192	-.02015	.63059	.10568	5.97091
.348	12.668	.01234	.72448	.00148	.00955	.00083	.00027	-.01884	.70652	.16033	4.40678
.348	14.773	.01489	.84494	.00020	.01061	.00040	.00005	-.02182	.81696	.21565	3.76832
.348	16.886	.01623	.96005	-.00365	.01529	-.00144	-.00053	-.02158	.91972	.27536	3.34000
.348	18.969	.01710	1.02618	-.00415	.02071	-.00485	-.00130	-.01991	.97180	.32964	2.94809
.348	21.023	.01674	1.08561	-.00359	.02585	-.00646	-.00172	-.01850	1.01463	.38611	2.62785
GRADIENT	.00137	.04985	-.00161	.00152	.00017	.00017	-.00013	-.00140	.04947	.00128	1.70300

RUN NO. 64/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.098	-.00318	-.04692	.02082	-.00782	.00021	.00179	-.00510	-.04612	.02252	-2.04784
.799	.108	.00505	.06335	.02138	-.00445	.00046	.00131	-.00823	.06331	.02149	2.94529
.800	2.321	.01134	.19147	.01906	-.00135	.00077	.00100	-.01261	.19054	.02680	7.10995
.800	4.549	.01669	.34020	.01573	.00077	.00100	.00039	-.01409	.33787	.04274	7.90568
.800	6.769	.01843	.46413	.01751	.00020	-.00042	.00024	-.01481	.45883	.07209	6.36476
.798	8.952	.01773	.57328	.02206	.00022	-.00019	.00052	-.01555	.56286	.11101	5.07055
.799	11.077	.02035	.65260	.03006	.00116	.00229	.00097	-.01948	.63467	.15488	4.09791
.798	13.266	.02508	.77134	.03225	.00171	.00195	.00016	-.01993	.74355	.20841	3.56674
.799	15.448	.02723	.87082	.03669	.00509	.00002	-.00027	-.01995	.82958	.26733	3.10322
.799	17.595	.03056	.94125	.04454	.00915	-.00040	.00001	-.02393	.88396	.32635	2.70862
.798	19.721	.03406	1.00781	.04857	.01504	-.00158	-.00244	-.01685	.93231	.38580	2.41655
.798	21.821	.03150	1.04128	.04998	.02325	-.00338	-.00349	-.01077	.94809	.43345	2.18730
GRADIENT	.00297	.05812	-.00079	.00130	.00012	.00012	-.00020	-.00137	.05765	.00298	1.53153

DATE 07 JUL 73 TABULATED SOURCE DATA-LARC 644

(RP5021) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ. IN. XMRP = 16.8633 INCHES
 LRCP = 25.5100 INCHES YMRP = .0000 INCHES
 BRCP = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = 1.0188 SCALE

BETA = .000 WINGNO = 3.000
 LAMCAF = 75.000 ELEVTR = .000
 BOFLAP = .000 RUFLR = .000

RUN NO. 63/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.166	-.00550	-.06951	.02882	-.00933	.00015	.00204	-.00492	-.06837	.03143	-2.17540
.910	.085	.00563	.03286	.02858	-.00679	.00040	.00099	-.00780	.05281	.02866	1.84309
.920	2.363	.01338	.20699	.02754	-.00587	.00094	.00072	-.01187	.20568	.03605	5.70559
.930	4.529	.01768	.34525	.02877	-.00407	-.00041	.00046	-.01351	.34184	.05604	6.10004
.940	6.851	.01916	.46732	.03354	-.00578	-.00230	-.00062	-.01005	.45999	.08905	5.16551
.950	9.022	.01923	.56740	.04147	-.00640	-.00101	-.00001	-.01266	.55388	.12993	4.26289
.960	11.220	.02142	.67813	.04805	-.00743	-.00119	-.00050	-.01218	.65573	.17957	3.65160
.970	13.409	.02449	.79161	.05807	-.01041	.00057	.00051	-.01856	.75656	.24007	3.15143
.980	15.660	.03344	.92165	.05473	-.00837	.00300	.00215	-.03163	.87266	.30148	2.89463
.990	17.874	.04007	1.01253	.06343	-.00319	.00285	-.00208	-.01877	.94420	.37113	2.54410
.995	19.988	.03740	1.05723	.06813	.00419	-.00358	-.00355	-.01120	.97026	.42541	2.28076
.999	22.083	.03322	1.09567	.06746	.01141	-.00195	-.00216	-.01443	.98993	.47444	2.08654
GRADIENT		.00342	.06171	-.00012	.00074	-.00005	-.00022	-.00132	.06105	.01359	1.26560

RUN NO. 62/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.981	-2.184	-.00580	-.11898	.07104	.00349	-.00006	.00208	-.00455	-.11618	.07552	-1.53848
.985	.095	.00352	.03661	.07358	.00024	.00009	.00170	-.00520	.03649	.07364	.49554
.981	2.379	.01100	.19867	.07393	-.00550	.00078	.00164	-.01346	.19543	.08211	2.38010
.980	4.680	.01582	.37759	.07517	-.01365	.00152	.00140	-.01539	.37020	.10373	3.50147
.980	6.960	.01862	.54915	.07918	-.02276	.00157	.00137	-.01700	.53551	.14514	3.68950
.981	9.225	.02190	.70173	.08025	-.02877	.00186	.00117	-.01820	.67979	.19170	3.54608
.982	11.504	.02693	.86058	.08289	-.03589	.00217	.00067	-.01932	.82676	.25285	3.26980
.980	13.751	.03069	1.01056	.08578	-.04179	.00176	.00105	-.02337	.96121	.32353	2.97101
.980	16.007	.03412	1.14299	.08784	-.04453	.00167	.00181	-.02890	1.07445	.39962	2.68869
.981	18.224	.03885	1.25811	.08952	-.04526	-.00256	.00120	-.02955	1.16701	.47848	2.43900
.981	19.582	.04295	1.30418	.08805	-.04256	.00326	.00143	-.02920	1.19923	.52007	2.30592
GRADIENT		.00329	.07221	.00056	-.00250	.00024	-.00009	-.00161	.07074	.00434	.74312

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES BETA = .000 WINGNO = 3.000
 LREF = 23.5100 INCHES YMRP = .0000 INCHES LANDAF = 75.000 ELEVR = .000
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES BDCLAP = .000 RUCLFLR = .000
 SCALE = .0188 SCALE

PARAMETRIC DATA

RUN NO. 61/ 0 SN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.200	-2.164	-.00583	-.08586	.07744	.00286	.00078	.00183	-.00455	-.08288	.08062	-1.02797
1.200	.107	.00372	.04949	.07967	-.00326	.00105	.00153	-.00832	.04534	.07976	.61857
1.201	2.400	.01113	.19868	.08109	-.01073	.00140	.00146	-.01196	.19231	.08935	2.18591
1.200	4.693	.01502	.35177	.08077	-.01793	.00139	.00134	-.01351	.34398	.10928	3.14765
1.200	6.979	.01840	.50318	.08113	-.02424	.00139	.00127	-.01504	.48960	.14167	3.45597
1.199	9.266	.02216	.64632	.08147	-.02930	.00178	.00120	-.01682	.62496	.18450	3.38728
1.199	11.579	.02656	.79653	.08256	-.03429	.00174	.00128	-.01961	.76375	.24075	3.17236
1.199	13.856	.03186	.93361	.08369	-.03869	.00124	.00126	-.02250	.88640	.30483	2.90785
1.200	16.096	.03619	1.05523	.08372	-.04112	.00127	.00146	-.02591	.99065	.37300	2.65591
1.200	17.763	.03866	1.13884	.08448	-.04151	.00239	.00177	-.02873	1.05877	.42788	2.47445
GRADIENT		.00306	.06396	.00050	-.00305	.00010	-.00217	-.00133	.06240	.00418	.61631

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TABULATED SOURCE DATA-LARC 644

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(RP5P21) (19 MAY 73)

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (BWSVFB)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9006 INCHES
 SCALE = .0188 SCALE

XMRP = 16.8633 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANDAF = 75.000 ULEVTR = .000
 ECLAP = .000 RUFLR = .000

RUN NO. 65/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFD1	CFD2	CFD3	CFD4
.348	-2.027	165.32057	-.02296	-.02296	-.02296	-.02296
.349	.086	165.78870	-.02533	-.02533	-.02533	-.02533
.348	2.168	165.22670	-.02880	-.02880	-.02880	-.02880
.348	4.260	165.32011	-.02927	-.02927	-.02927	-.02927
.348	6.359	165.50783	-.03021	-.03021	-.03021	-.03021
.348	8.482	165.50783	-.03069	-.03069	-.03069	-.03069
.348	10.595	165.50783	-.04087	-.04087	-.04087	-.04087
.348	12.648	165.50760	-.05783	-.05783	-.05783	-.05783
.348	14.773	165.22670	-.07442	-.07442	-.07442	-.07442
.348	16.886	165.32057	-.09815	-.09815	-.09815	-.09815
.348	18.969	165.41397	-.14124	-.14124	-.14124	-.14124
.348	21.023	165.22670	-.19770	-.19770	-.19770	-.19770
GRADIENT		-.02665	-.00107	-.00107	-.00107	-.00107

RUN NO. 64/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFD1	CFD2	CFD3	CFD4
.799	-2.098	311.08771	-.01800	-.01800	-.01800	-.01800
.799	.108	311.22191	-.01877	-.01877	-.01877	-.01877
.800	2.321	311.35607	-.02238	-.02238	-.02238	-.02238
.800	4.562	311.28899	-.02212	-.02212	-.02212	-.02212
.800	6.769	311.28899	-.02933	-.02933	-.02933	-.02933
.798	8.952	310.53176	-.04227	-.04227	-.04227	-.04227
.799	11.077	311.02160	-.06363	-.06363	-.06363	-.06363
.798	13.268	310.23178	-.09943	-.09943	-.09943	-.09943
.799	15.448	310.81918	-.16583	-.16583	-.16583	-.16583
.799	17.585	310.94721	-.25526	-.25526	-.25526	-.25526
.798	19.721	310.47703	-.32173	-.32173	-.32173	-.32173
.798	21.821	310.67860	-.39562	-.39562	-.39562	-.39562
GRADIENT		.03317	-.00072	-.00072	-.00072	-.00072

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (B43VFB) (RPSP21) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LFTF = 25.5100 INCHES
 BREF = 20.0096 INCHES
 SCALE = .0188 SCALE

WREF = 16.8633 INCHES
 YREF = .0000 INCHES
 ZREF = .0000 INCHES

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 15.000 ELEVTR = .000
 EDPLAF = .000 RUFLR = .000

RUN NO. 63/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.970	-2.166	355.25213	.01019	-.00910	.00434	-.00911
.970	.085	355.43956	.00648	-.00686	.00210	-.00911
.898	2.363	354.49244	.00498	-.00440	.00301	-.00126
.899	4.629	354.95470	-.00157	-.00388	-.00395	-.00485
.898	6.851	354.50151	-.02792	-.03450	-.03058	-.03009
.899	9.022	354.89518	-.07534	-.09394	-.08673	-.07915
.900	11.220	355.25213	-.12358	-.17478	-.14841	-.13283
.899	13.409	355.09192	-.20177	-.25000	-.21793	-.21007
.899	15.660	354.89880	-.25139	-.30358	-.31601	-.27303
.970	17.874	355.73204	-.36913	-.43157	-.44985	-.39636
.899	19.988	354.92244	-.45108	-.51715	-.54473	-.46053
.899	22.083	354.85381	-.49862	-.57000	-.60464	-.50903
	GRADIENT	-.08132	-.00162	.00214	-.00106	.00091

RUN NO. 62/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.981	-2.184	385.58749	-.17423	-.16813	-.18332	-.19332
.981	.095	385.52315	-.10079	-.16302	-.18108	-.19068
.981	2.379	385.52315	-.16970	-.16942	-.18752	-.19959
.980	4.680	385.06467	-.19050	-.19028	-.21268	-.22056
.980	6.960	385.29378	-.22897	-.22497	-.25129	-.25597
.981	9.225	385.70935	-.27088	-.26991	-.29772	-.29460
.982	11.504	385.78541	-.32183	-.32630	-.33820	-.33977
.980	13.751	385.26301	-.37673	-.37173	-.40050	-.38558
.980	16.007	385.43104	-.41803	-.42019	-.44942	-.42196
.981	18.224	385.85231	-.45509	-.45927	-.49595	-.46862
.981	19.582	385.52315	-.47277	-.48220	-.51155	-.48932
	GRADIENT	-.06866	-.00227	-.00319	-.00414	-.00397

TABULATED SOURCE DATA-LARC 644

DATE 07 JUL 73

(RP5P21) (19 MAY 73)

LARC 8-FT TET 644 LO-100 ORBITER (SHIPS) (RNOVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ.IN.
LREF = 25.3100 INCHES
BREF = 20.9596 INCHES
SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
LAMDAF = 75.000 ELEVTR = .000
SDFLAP = .000 RUDEFLR = .000

RUN NO. 61/0 RNVL = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFE1	CFB2	CFC1	CFC2
1.200	-2.164	440.68058	-22967	-23604	-23314	-23356
1.200	.107	440.16255	-22848	-22437	-23268	-23637
1.201	2.400	440.96871	-23350	-23171	-23915	-24372
1.200	4.693	440.81759	-23788	-24203	-24715	-25334
1.200	6.979	440.52303	-25057	-26059	-26164	-26890
1.199	9.266	440.49562	-26669	-28275	-27447	-28568
1.199	11.579	440.34435	-28620	-30702	-28777	-30205
1.199	13.856	440.48799	-31229	-34413	-31273	-33040
1.200	16.096	440.54437	-32833	-36296	-32258	-34421
1.200	17.763	440.39319	-35315	-38671	-34608	-36567
GRADIENT		.05603	-1.00130	-.00111	-.00212	-.00292

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FY 7F7 644 LO-100 ORBITER (SHIPS) (BWJWFB)

(RP5022) (19 MAY 73)

REFERENCE DATA

WREF = 173.1312 50. IN. XREF = 16.8633 INCHES
 LREF = 25.3100 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMCAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 60/ 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.349	-2.059	-.00045	-.04531	.02006	-.00686	.00031	.00102	-.00363	-.04456	.02168	-2.05535
.349	.040	.00391	.05974	.02270	-.00379	.00045	.00074	-.00892	.05973	.02274	2.62674
.349	2.138	.00678	.10016	.01890	-.00015	.00073	.00049	-.01148	.15934	.02486	6.40820
.349	4.234	.00787	.27167	.01114	.00350	.00100	.00054	-.01325	.27011	.03117	8.66629
.349	6.356	.00862	.39081	.00332	.00663	.00122	.00048	-.01408	.38837	.04358	8.91074
.349	8.458	.00962	.51243	-.01113	.00911	.00161	.00073	-.01365	.50849	.06436	7.90076
.349	10.577	.00803	.63486	-.00907	.01034	.00387	.00284	-.02037	.62574	.10761	5.81501
.349	12.664	.01302	.74732	.00333	.01095	.00228	.00024	-.01965	.72841	.16708	4.35964
.349	14.812	.01570	.88545	.00168	.01423	.00155	-.00017	-.02198	.85620	.22570	3.79347
.349	16.929	.01887	1.02790	-.00785	.01800	-.00134	-.00051	-.02540	.97895	.28977	3.37838
.349	19.039	.01983	1.12626	-.01271	.02378	-.00548	-.00149	-.02304	1.06880	.35538	3.02746
.349	21.098	.01861	1.16863	-.01014	.03153	-.00704	-.00179	-.02034	1.06394	.41120	2.66035
GRADIENT		.00133	.05012	-.00146	.00166	.00011	-.00008	-.00152	.04975	.00146	1.71369

RUN NO. 59/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.142	-.00260	-.05133	.02028	-.00891	.00123	.00165	-.00494	-.05054	.02219	-2.27785
.799	.059	.00342	.06140	.02192	-.00551	.00059	.00118	-.00897	.06138	.02199	2.79171
.800	2.293	.01108	.19456	.01995	-.00193	.00098	.00096	-.01223	.19361	.02771	6.98608
.800	4.537	.01662	.33731	.01612	.00065	.00099	.00038	-.01399	.33498	.04275	7.83517
.799	6.732	.01807	.46594	.01747	.00052	-.00053	.00029	-.01392	.46066	.07213	6.38627
.799	8.916	.01849	.57369	.02295	.00064	-.00040	.00021	-.01484	.56321	.11159	5.04721
.799	11.070	.02032	.66244	.02915	.00243	.00288	.00088	-.01952	.64452	.15580	4.13677
.799	13.264	.02488	.77436	.03445	.00308	.00253	-.00015	-.01843	.74579	.21120	3.53125
.799	15.420	.02760	.88284	.03761	.00331	.00132	-.00047	-.01940	.84096	.27129	3.09949
.799	17.601	.02698	.96253	.04154	.01123	-.00114	-.00034	-.01968	.90492	.33065	2.73681
.799	19.766	.03074	1.04227	.04663	.01777	-.00133	-.00040	-.02265	.96509	.39636	2.43459
.799	21.877	.03210	1.07910	.04552	.02703	.00156	-.00004	-.02560	.98443	.44432	2.21559
.800		.00284	.05834	-.00065	.00145	.00012	-.00018	-.00136	.05788	.00303	1.54886

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TABULATED SOURCE DATA-LARC 642

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(RP5022) (19 MAY 73)

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFB)

PARAMETRIC DATA

REFERENCE DATA

SREF = 173.1312 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

BETA = .000 WINGNO = 3.000
 LAMCAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 58/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.899	-2.210	-.00462	-.07264	.02816	-.01055	.00010	.00195	-.00513	-.07150	.03094	-2.31075
.900	.043	.00558	.05624	.02873	-.01808	.00052	.00094	-.00757	.05622	.02878	1.93370
.901	2.340	.01305	.05582	.02913	-.00620	.00120	.00047	-.01048	.20446	.03751	5.45051
.898	4.614	.01825	.05410	.02766	-.00572	-.00150	.00051	-.01407	.35073	.05599	6.26387
.900	6.823	.01988	.05401	.03297	-.00514	-.00169	-.00028	-.01189	.46316	.08861	5.22678
.900	8.905	.01676	.05888	.04115	-.00363	-.00351	-.00130	-.00564	.54557	.12803	4.26140
.899	11.211	.02055	.07612	.04527	-.00471	-.00157	-.00075	-.01056	.65442	.17586	3.72119
.900	13.441	.02461	.08131	.05434	-.00686	.00220	.00204	-.02499	.76674	.23911	3.20662
.899	15.658	.02671	.09145	.05566	-.00365	.00095	.00114	-.02489	.86521	.30732	2.88095
.901	17.878	.02758	1.02201	.06192	-.00383	-.00131	-.00005	-.01867	.95365	.37268	2.55891
.900	20.080	.03099	1.08813	.06833	.00758	-.00175	.00058	-.02391	.99875	.43725	2.28417
.899	22.181	.03113	1.13770	.06558	.01466	-.00049	.00107	-.02641	1.02875	.49024	2.09845
GRADIENT		.00335	.06288	-.00005	.00072	-.00018	-.00021	-.00131	.06223	.00369	1.28495

RUN NO. 57/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.980	-2.211	-.00654	-.11434	.07030	.00254	-.00026	.00204	-.00455	-.11155	.07466	-1.49398
.980	.079	.00230	.04053	.07306	-.00032	.00027	.00174	-.00965	.04043	.07311	.55294
.980	2.348	.01073	.19916	.07393	-.00574	.00086	.00144	-.01244	.19597	.08203	2.38896
.979	4.659	.01459	.37705	.07660	-.01358	.00141	.00134	-.01441	.36958	.10697	3.45493
.980	6.959	.01838	.55010	.07989	-.02168	.00148	.00142	-.01705	.53637	.14595	3.67491
.981	9.215	.02192	.69987	.08036	-.02657	.00200	.00099	-.01749	.67797	.19140	3.54222
.980	11.476	.02760	.85638	.08174	-.03270	.00221	-.00011	-.01646	.82300	.25049	3.28549
.979	13.744	.03230	1.01325	.08677	-.03891	.00176	.00005	-.02023	.96362	.32501	2.96489
.980	15.993	.03584	1.15932	.08703	-.03969	.00145	.00093	-.02599	1.07125	.39756	2.69458
.981	18.214	.03826	1.24191	.08705	-.03715	-.00301	.00165	-.02921	1.15243	.47087	2.44758
.981	19.618	.03818	1.31152	.08834	-.03675	.00287	.00140	-.03031	1.20501	.52366	2.30305
GRADIENT		.00314	.07137	.00005	-.00235	.00024	-.00010	-.00146	.06989	.00463	.72890

LARC 8-FT TPT 644 LO-100 ORBITER(SHIPS) (BL3VFB)

(RP5022) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ. IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUDFLR = .000

RUN NO. 56/ D RV/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.201	-2.193	-.00605	-.03108	.07652	.00184	.00092	.00168	-.00361	-.08809	.07995	-1.10162
1.200	.081	.00354	.05043	.08011	-.00441	.00125	.00144	-.00785	.05031	.08018	.62750
1.201	2.364	.01105	.19766	.08176	-.01117	.00160	.00127	-.01109	.19412	.08985	2.16055
1.201	4.646	.01510	.34873	.08215	-.01796	.00150	.00125	-.01317	.04093	.11013	3.09578
1.201	6.942	.01796	.49784	.08149	-.02354	.00155	.00118	-.01442	.48435	.14107	3.43348
1.200	9.240	.02292	.64829	.08212	-.02839	.00187	.00104	-.01654	.62666	.18524	3.38299
1.200	11.557	.02643	.79343	.08225	-.03249	.00149	.00117	-.01907	.76086	.23954	3.17640
1.200	13.828	.03116	.93350	.08369	-.03609	.00126	.00126	-.02210	.88644	.30438	2.91226
1.200	16.120	.03504	1.05953	.08457	-.03785	.00130	.00143	-.02516	.99439	.37543	2.64865
1.200	17.619	.03667	1.14713	.08508	-.03859	.00144	.00179	-.02771	1.06090	.42619	2.48926
1.200	GRADIENT	.00311	.06433	.07031	-.00290	.00009	-.00216	-.00137	.06276	.00440	.61950

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TABULATED SOURCE DATA-LARC 644

LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BLOWFEB)

(RP5P22) (15 MAY 73)

REFERENCE DATA

QREF = 173.1312 SQ.IN. XREF = 16.8633 INCHES
 LREF = 25.5100 INCHES YREF = .0000 INCHES
 BREF = 20.9096 INCHES ZREF = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 78.000 ELEVTR = .000
 BDFLAP = .000 RUFLR = .000

RUN NO. 60/ 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.349	-2.059	166.35221	-.02136	-.05863	-.08058	-.03383
.349	.040	166.25838	-.02523	-.05723	-.08158	-.03240
.349	2.138	166.53963	-.02808	-.06100	-.07857	-.03140
.349	4.234	166.53963	-.02808	-.06144	-.08434	-.03140
.349	6.356	166.53963	-.02808	-.06527	-.09011	-.02948
.349	8.458	166.53939	-.03097	-.07292	-.09539	-.03427
.349	10.577	166.25861	-.04115	-.09124	-.10759	-.05067
.349	12.684	165.88418	-.05622	-.11304	-.10348	-.07554
.349	14.812	165.88418	-.07024	-.12649	-.11121	-.09413
.349	16.929	165.97803	-.08421	-.13649	-.12079	-.11333
.349	19.029	166.25885	-.11012	-.17268	-.15238	-.13862
.349	21.098	166.25885	-.16704	-.23256	-.20536	-.19293
GRADIENT		.04021	-.00110	-.02053	-.02039	-.02040

RUN NO. 59/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.800	-2.142	311.36235	-.01669	-.02505	-.02260	-.02179
.799	.059	311.13601	-.02133	-.02788	-.02492	-.02565
.800	2.293	311.28899	-.02056	-.02710	-.02260	-.02359
.800	4.537	311.35007	-.02210	-.02966	-.02543	-.02564
.799	6.752	310.80042	-.02933	-.03557	-.03266	-.03388
.799	8.916	310.88633	-.04171	-.05042	-.04682	-.04801
.799	11.070	311.08771	-.06489	-.09111	-.08412	-.07599
.799	13.264	311.22818	-.10481	-.15326	-.16025	-.12012
.799	15.440	310.99554	-.15980	-.22456	-.23040	-.18496
.799	17.601	310.98927	-.23820	-.31011	-.33418	-.25485
.799	19.766	311.24072	-.31839	-.38791	-.42499	-.31934
.799	21.877	311.28899	-.37297	-.45054	-.49619	-.39221
.800		.00617	-.02069	-.02059	-.02028	-.02042

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TABULATED SOURCE DATA-LARC 644

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LARC 9-FT TPT 644 LO-100 ORBITER(SHIPS) (BW3VFB)

(RP5P22) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN.
 LREF = 25.5100 INCHES
 BREF = 20.9096 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LAMDAF = 78.000 ELEVTR = .000
 B2FLAP = .000 RUOFLR = .000

RUN NO. 58/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.899	-2.210	355.02331	.00910	-.01113	.00098	-.01092
.900	.043	355.25213	.00604	-.00708	.00120	-.00979
.910	2.340	355.47609	.00626	-.00574	.00277	-.00417
.938	4.604	354.64788	-.00136	-.00956	-.00395	-.00530
.950	6.823	355.26125	-.02469	-.03219	-.02783	-.02846
.970	8.995	355.44400	-.06461	-.12091	-.11275	-.08038
.899	11.211	354.68929	-.10747	-.16787	-.14662	-.12042
.920	13.441	355.39840	-.18556	-.25046	-.22880	-.19573
.899	15.658	355.31593	-.26008	-.32202	-.32982	-.28033
.901	17.878	356.05637	-.37238	-.42134	-.46048	-.37199
.920	20.050	355.70918	-.45931	-.52632	-.54490	-.46805
.899	22.181	354.83564	-.49185	-.56352	-.60468	-.50140
	GRADIENT	-.03964	-.00137	.00027	.00058	.00099

RUN NO. 57/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
.980	-2.211	385.32408	-.17397	-.16768	-.18351	-.19392
.980	.079	384.91274	-.16520	-.16186	-.18018	-.19019
.990	2.348	385.04900	-.16503	-.16458	-.18498	-.19851
.979	4.659	385.00304	-.19001	-.18919	-.21306	-.22217
.980	6.959	385.27195	-.22832	-.22393	-.25234	-.25990
.981	9.215	385.40109	-.25398	-.25437	-.27379	-.28359
.980	11.476	385.55270	-.30699	-.31425	-.32485	-.32915
.979	13.744	384.86574	-.36716	-.36472	-.39475	-.38126
.980	15.993	385.47649	-.41210	-.41535	-.44789	-.41939
.981	18.214	385.34006	-.45711	-.45364	-.49991	-.46652
.981	19.618	385.73625	-.48887	-.48168	-.53137	-.49153
	GRADIENT	-.03615	-.00210	-.00295	-.00409	-.00407

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TABULATED SOURCE DATA-LARC 644

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LARC 8-FT TPT 644 LO-100 ORBITER (SHIPS) (BWSVFE)

(RF5P22) (19 MAY 73)

REFERENCE DATA

SREF = 173.1312 SQ.IN. XMRP = 16.8633 INCHES
 LREF = 25.5100 INCHES YMRP = .0000 INCHES
 BREF = 20.9096 INCHES ZMRP = .0000 INCHES
 SCALE = .0188 SCALE

PARAMETRIC DATA

BETA = .000 WINGNO = 3.000
 LANDAP = 78.000 ELEVTR = .000
 BDPLAP = .000 RUOFLR = .000

RUN NO. 56/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	CFB1	CFB2	CFC1	CFC2
1.201	-2.193	440.24010	-23109	-23458	-23423	-23591
1.200	.081	440.71098	-22765	-22248	-23315	-23627
1.201	2.364	440.34085	-23145	-23023	-23713	-24297
1.201	4.646	440.99550	-23885	-24498	-24887	-25540
1.201	6.942	440.69339	-24798	-25966	-25999	-26723
1.200	9.248	440.81947	-26375	-28218	-27265	-28421
1.200	11.557	440.63921	-28730	-30775	-28981	-30388
1.200	13.828	440.66825	-31127	-34421	-31556	-33248
1.200	16.120	440.35048	-32811	-36927	-32401	-34491
1.200	17.619	440.50936	-35182	-38485	-35205	-36654
	GRADIENT	.08314	1.00119	-1.00171	-1.00210	-1.00286